

**Digital Personal Video Recorder**

**User's Manual**

**IRCI-PVR**



- ▶ The default password is 0000. If you have forgotten your password, please contact your local product distributor.
- ▶ The product image may differ from the actual product.

# Notice

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Thank you for purchasing a HUMAX product. Please read this user's manual carefully to be able to safely install, use and maintain the product at maximum performance. Keep this user's manual next to your product for future reference. The information in this user's manual is subject to change without notice.

# Notice

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Read this manual carefully and make sure you understand the instructions provided. For your safety, be aware of the following precautions.

## Warnings, Cautions and Notes

Throughout the whole manual, pay special attention to the following marks that indicate hazardous situations.

### Warning

Indicates a hazardous situation which could result in serious injury.

### Caution

Indicates a situation which could damage the equipment or other apparatus.

### Note

Indicates additional information to make the user aware of possible problems and information of any importance to help understand, use, and maintain the installation.



To reduce the risk of electric shock, do not remove cover(or back). No user serviceable parts inside. Refer servicing to qualified service personnel.



This symbol indicates dangerous voltage inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

# Safety Warning

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This product has been manufactured to comply with international safety standards. Please read the following safety precautions carefully.

## Safety Instructions and Precautions

### 1. MAINS SUPPLY

90 - 250V AC 50/60Hz

Operate this product only from the type of power supply indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your local power company. Disconnect the product from the mains before you start any maintenance or installation procedures.

### 2. OVERLOADING

Do not overload a wall outlet, extension cord or adapter as this may result in electric fire or shock.

### 3. LIQUID

The product should not be exposed to liquid of any kind. In addition, no objects filled with liquid should be placed on the apparatus.

### 4. CLEANING

Disconnect the product from the wall outlet before cleaning.

Use a light damp cloth (no solvents) to dust the product.

### 5. VENTILATION

The slots on top of the product must be left uncovered to allow proper airflow into the unit. Do not stand the product on soft furnishings or carpets. Do not stack electronic equipments on top of the product.

### 6. ATTACHMENTS

Do not use any unsupported attachments as these may be hazardous or cause damage the product.

### 7. CONNECTION TO THE SATELLITE DISH LNB

Disconnect the product from the mains before connecting or disconnecting the cable from the satellite dish. Failure to do so can damage the LNB.

### 8. CONNECTION TO THE TV

Disconnect the product from the mains before connecting or disconnecting the cable from the TV. Failure to do so can damage the TV.

### 9. EARTHING

The LNB cable must be earthed to the system earth for the satellite dish.

# Safety Warning

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## 10. LOCATION

Place the product indoors to avoid exposing it to lightening, rain or sun.

Do not place it near a radiator or heat register.

Make sure it has more than 10 cm clearance from any appliances susceptible to electromagnetic influences, such as a TV or a VCR.

Do not block the openings with any object, and do not place the product on a bed, sofa, rug, or other similar surface. If you place the product on a rack or a bookcase, ensure that there is adequate ventilation and that you have followed the manufacturer's instructions for mounting.

Do not place the product on an unstable cart, stand, tripod, bracket, or table where it can fall. A falling product can cause serious injury to a child or adult, and serious damage to the appliance.

## 11. LIGHTNING, STORM or NOT IN USE

Unplug the product from the wall outlet and disconnect the antenna during a thunderstorm or when left unattended and unused for long periods of time. This will prevent damage to the unit due to lightning and power-surges.

## 12. EXTRANEIOUS OBJECTS

Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts.

## 13. REPLACEMENT of PARTS

When replacement of parts is required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitution may result in additional damage to the unit.

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## Warning

1. Follow these directions in order to avoid damage of the power cord or plug.
  - Do not modify or process the power cord or plug arbitrarily.
  - Do not bend or twist the power cord.
  - Make sure to disconnect the power cord holding the plug.
  - Keep heating appliances as far as possible from the power cord in order to prevent the cover vinyl from melting.
  - The mains plug shall remain readily operable.
2. Follow these directions. Failure to follow any of them may cause electrical shock.
  - Do not open the main body.
  - Do not insert metal or inflammable objects inside the product.
  - Do not touch the power plug with wet hands.
  - Disconnect the power cord in case of lightning.
3. Do not use the product when it is out of order. If you continue to use the product when defective, serious damage can be caused to it. Make sure to contact your local product distributor if the product is out of order.
4. Please do not insert metal or alien substance into the slots for the modules and Smartcards. It may cause damage to the product and reduce its life span.
5. Hard Disk Drive.
  - Do not turn the power off suddenly while the hard disk drive is running. The company shall not be liable for any corruption of data on the hard disk drive caused by the carelessness or misuse of users.

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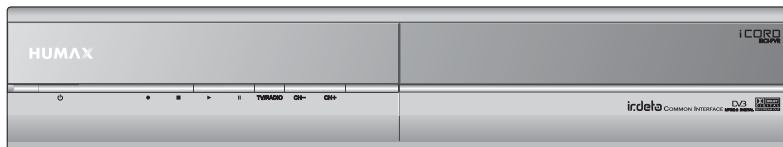
# Chapter 1. Before Using the Product

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This chapter provides detailed instructions on the product and its accessories.

## 1.1 Package Contents

Please check all package contents before using your product.



**Front Panel**



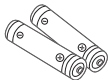
**Remote Control Unit**



**User's Manual**



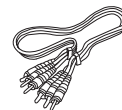
**CD-ROM**



**Batteries**



**Loop-through Cable**



**RCA Cable**

### Note:

- Defaults may occur if the remote control is left without battery for a long time. Always keep the battery inserted in the remote control.
- CD-ROM contains USB driver and application.
- Package contents may vary according to area.

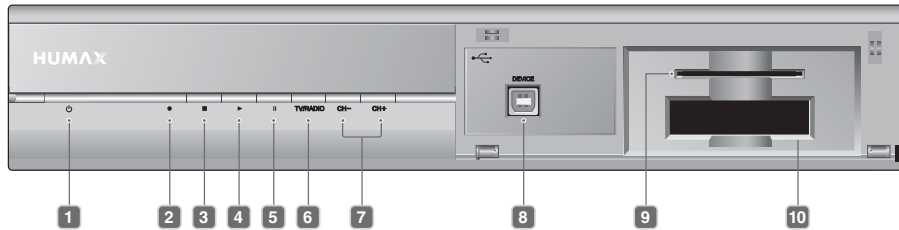
### Warning:

- The company shall not be liable for problems caused by changing hard disk drive by user.
- This product provides best performance with Seagate ST3160022ACE (160G) Hard Disk Drive.
- The company shall not be liable for problems caused by the installation of hard discs bigger than 160GB.

# Chapter 1. Before Using the Product

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## 1.2 Front Panel



### 1. STANDBY BUTTON

Switches between operation and standby modes.

### 2. RECORD BUTTON

Records programme.

### 3. STOP BUTTON

Stops recording.

### 4. PLAY BUTTON

Plays programme.

### 5. PAUSE BUTTON

Pauses programme.

### 6. TV/RADIO BUTTON

Switches between TV and radio modes.

### 7. CH-/CH+ BUTTON

Moves the TV/radio channel up or down.

### 8. USB DEVICE

Connect to the PC port.

### 9. SMART CARD SLOT

A slot for a Smartcard

### 10. CI-MODULE SLOT

A slot for two CI modules with a Smartcard

## 1.3 Conditional Access

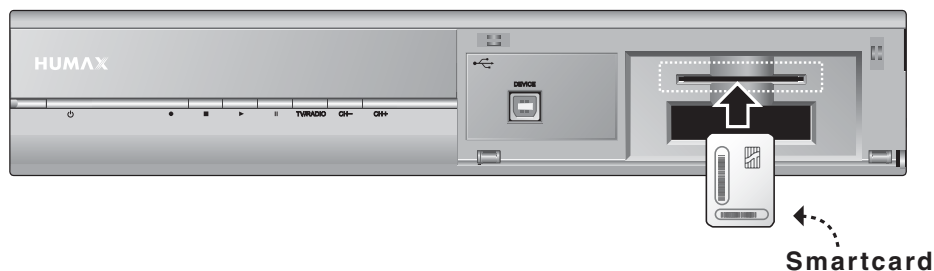
Although some TV and radio channels are free to air, most TV and radio/music channels are available on a subscription basis and can only be enjoyed via a Conditional Access component. The Conditional Access component is a removable Smartcard.

### 1. Inserting the Smartcard

The Smartcard looks similar to a credit card and is inserted into the slot behind the right-hand front flap of the product.

A valid Smartcard entitles you to view and listen to all the channels you choose to subscribe to.

1. Open the right-hand flap on the front panel of the product. Swing it upwards to expose the card slot.
2. Hold the Smartcard horizontally with the electronic chip (small square-shaped, gold in colour) facing upwards.
3. Insert the Smartcard into the top slot.

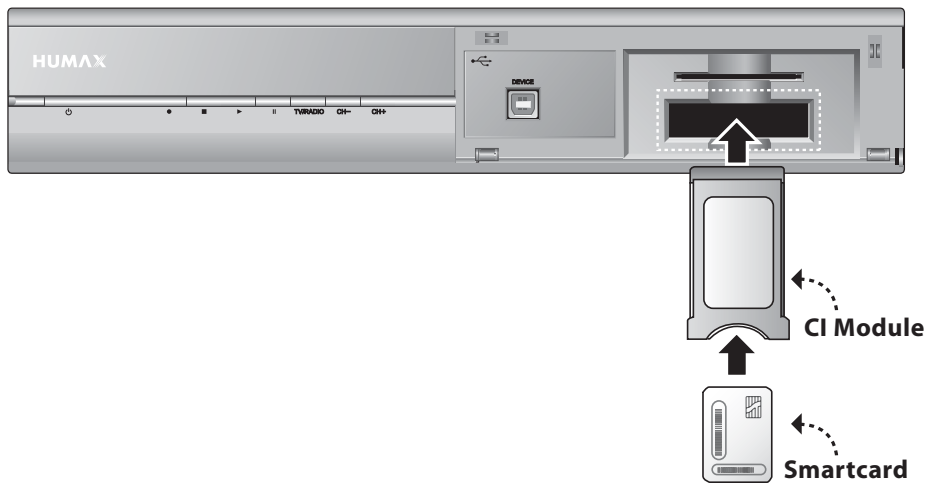


# Chapter 1. Before Using the Product

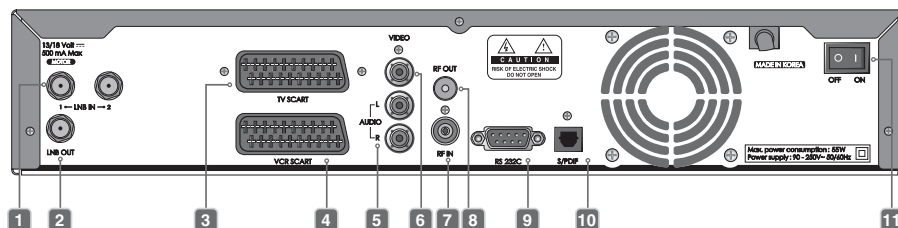
## 2. Inserting a CI Module (with Smartcard)

A CI module looks like a PC map (PCMCIA) for laptops. There are different kinds of CI modules, suitable for different coding systems; Irdeco, Conax and more. Additionally to the CI module, a Smartcard is needed to decode the channels.

1. Open the right-hand flap on the front of the product.
2. Follow the instructions of the module and insert the Smartcard into the CI module.
3. Keep the CI module (with the Smartcard) horizontal.
4. Insert the CI module into the slot.



## 1.4 Rear Panel



### 1. LNB IN 1, 2

Connects to the satellite antenna cable. Up to two cables can be connected. If you use the motor or SMATV antenna, you should connect to LNB IN 1.

### 2. LNB OUT

Connects to another digital receiver.

### 3. TV SCART

Connects to a TV SCART cable.

### 4. VCR SCART

Connects to a VCR SCART cable.

### 5. AUDIO L/R

Connects to the TV or VCR and outputs audio signals.

### 6. VIDEO

Connects to the TV or VCR and outputs video signals.

### 7. RF IN

Connects the general aerial antenna and the RF input jack of the product using the RF cable.

### 8. RF OUT

Connects the RF output jack of the product and RF input jack on the TV using the RF cable. Please refer to **10.2.4 UHF tuning**.

### 9. RS-232C

Connects a PC for software update.

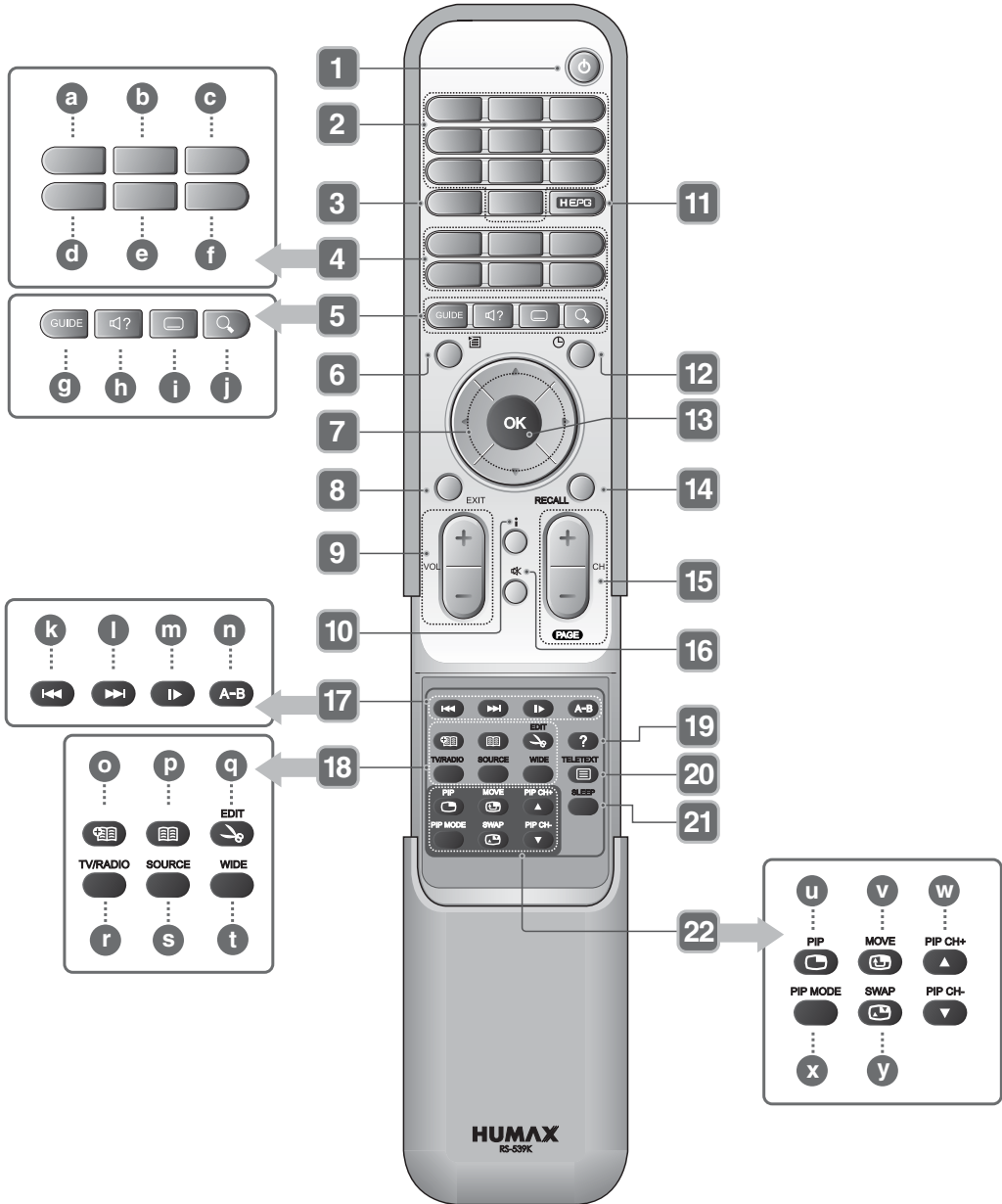
### 10. S/PDIF

Outputs the digital audio signals(S/PDIF).

### 11. ON/OFF

Powers on/off.

# Chapter 1. Before Using the Product



**1. STANDBY**

Switches between operation and standby modes.

**2. NUMERIC(0-9) BUTTONS**

Enters a TV/radio channel number or menu option number.

**3. MENU**

Displays the main menu.

**4. PLAYBACK CONTROL BUTTONS****a. FAST REWIND**

Rewinds at high speed. Each time you press this button the rewind speed is increased.

**b. PLAY**

Plays at normal speed or resume.

**c. FAST FORWARD**

Forwards at high speed. Each time you press this button the fast forward speed is increased.

**d. RECORD**

Records a programme.

**e. STOP**

Stops a recording or goes to the live programme.

**f. PAUSE**

Pauses the live programme or recording.

**5. Group 1****g. GUIDE- RED**

Displays the programme guide.

**h. SOUNDTRACK-GREEN**

Displays the soundtrack options.

**i. SUBTITLE-YELLOW**

Displays the subtitle language list where available.

**j. ZOOM - BLUE**

Enlarges the picture.

**6. MEDIA LIST**

Displays the media list.

**7. ARROW BUTTONS**

Changes the channel or moves the cursor up, down, left or right.

**8. EXIT**

Closes and returns to the previous menu.

**9. V+ / V-**

Adjusts the audio volume.

**10. i (INFORMATION)**

Displays the channel and programme information.

**11. HEPG**

Displays the Humax EPG.

**12. SCHEDULE-WHITE**

Displays the schedule list. For more information, refer to **8.4 Schedule**.

**13. OK**

Selects a menu or confirms the selected operation. Also displays the channel list while watching a programme.

**14. RECALL**

Returns to the previous channel.

**15. CH+ / CH- or PAGE+ / PAGE-**

Changes the channel or page.

**16. MUTE**

Mutes or unmutes the audio temporarily.

**17. Group 2****k. PREVIOUS**

Goes to the previous chapter.

**l. NEXT**

Goes to the next chapter.

**m. SLOW MOTION**

Plays the programme in slow motion. Each time you press this button, speed is slowed progressively more.

**n. A-B**

Plays back a specified block repeatedly.



# Chapter 1. Before Using the Product

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## 18. Group 3

### o. **ADD BOOKMARK**

Saves the present viewing position as a bookmark.

### p. **BOOKMARK LIST**

Displays the bookmark image.

### q. **EDIT**

Displays the edit screen.

### r. **TV/RADIO**

Switches between TV and radio modes.

### s. **SOURCE**

Controls the input of TV.

### t. **WIDE**

Sets the display format.

## 19. ? (HELP)

Displays the help box on the screen. The help box shows the information of the current programme.

## 20. TELETEXT

Enters the teletext service.

## 21. SLEEP

Sets the sleep time.

## 22. PIP BUTTONS

### u. **PIP**

Displays the picture in picture (PIP) screen.

### v. **MOVE PIP**

Changes the position of the PIP screen.

### w. **PIP CH+/CH-**

Changes the PIP channel.

### x. **PIP MODE**

Changes the PIP mode.

### y. **SWAP PIP**

Swaps the focus between the main and the PIP screen.

## Chapter 2. Setup

This chapter describes how to connect your product to the TV with the particular equipments for gaining optimum signal quality. The product provides various interfaces to connect to the TV, VCR or other devices. Select the most appropriate procedure depending on the equipment you have.

**Note:** If you encounter any problems setting up your product, please contact your local product distributor.

### 2.1 Connecting to the Antenna

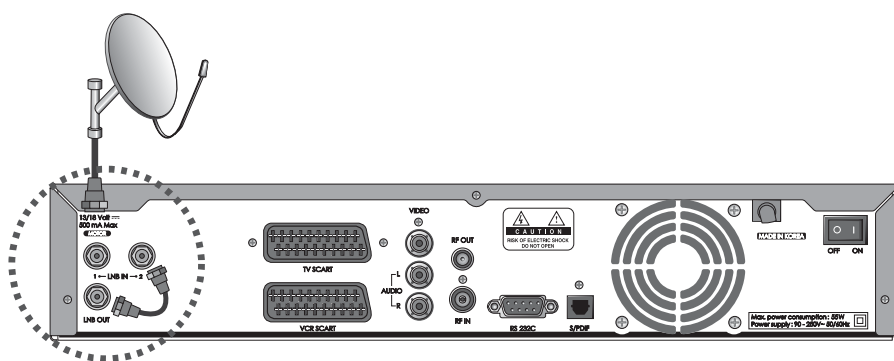
You can select one of the following antenna connections depending on the equipment you have. The product has two antenna modes according to setting.

#### 1. Loop Through

1. Connect the antenna cable to LNB IN 1.
2. Connect the other cable from LNB OUT to LNB IN 2.

**Note:**

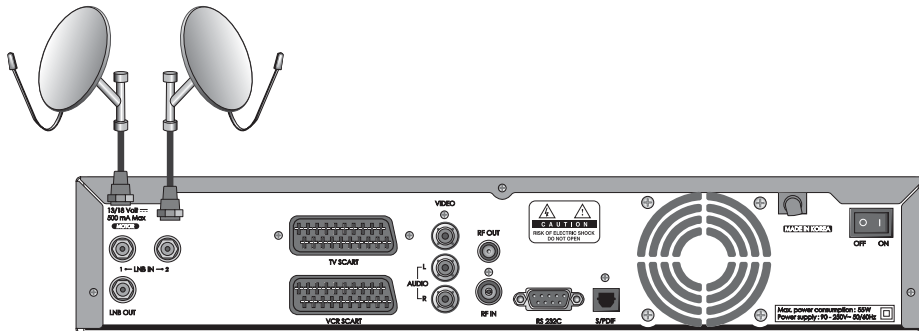
- If you use the motor or SMATV antenna, you should connect to LNB IN 1.
- The product detects the antenna connection type automatically.
- You can switch channels while Tuner 2 is in recording mode if the channel being recorded has the same polarity as the other channel. However, you cannot watch a channel with a different polarity from the channel being recorded.



## Chapter 2. Setup

### 2. Two Separated Antennas Setting

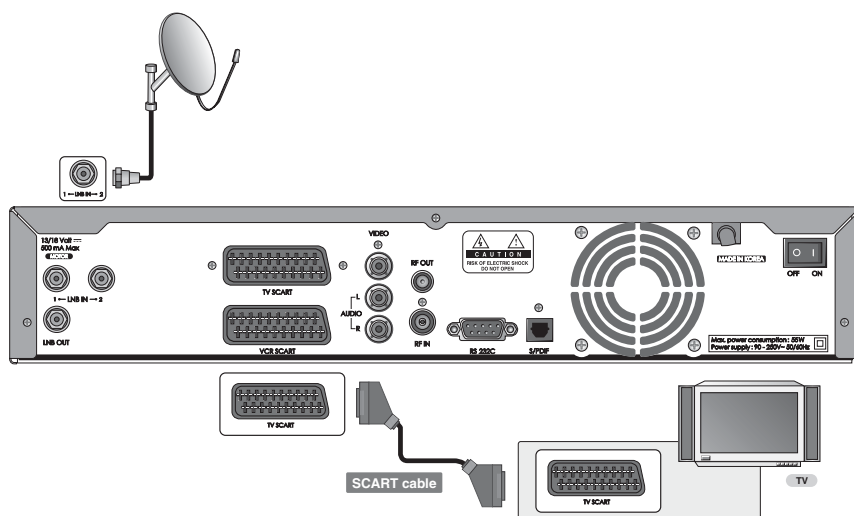
Connect the two antenna cables providing different broadcasting signals to your product. You can configure LNB1 and LNB2 independently.



## 2.2 Connecting TV

### 1. Using SCART Cable

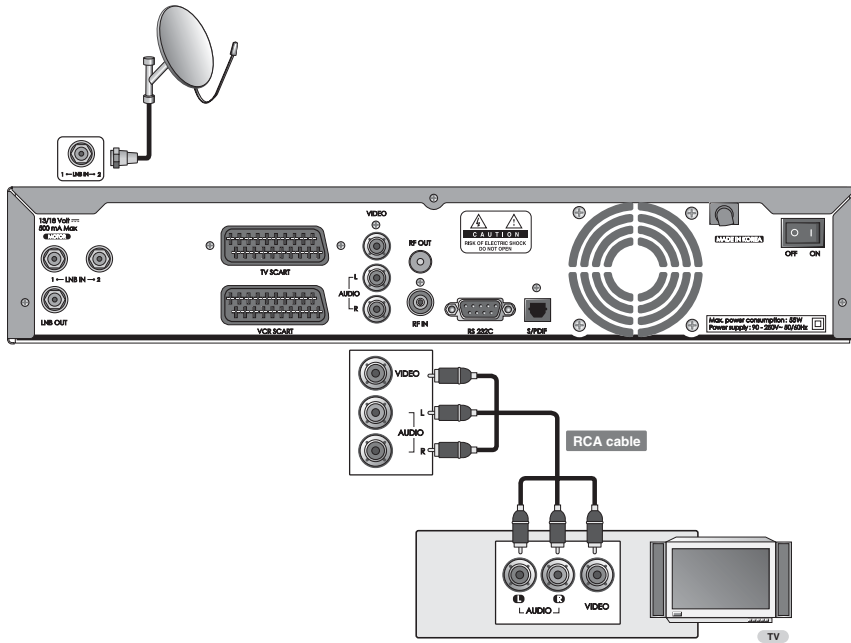
Connect the product and TV using SCART cable as follows.



# Chapter 2. Setup

## 2. Using RCA Cable

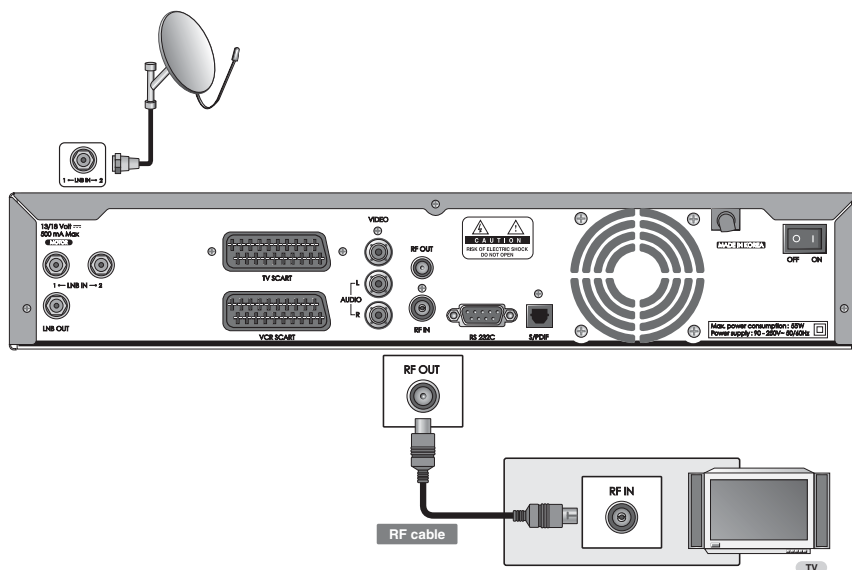
Connect the product and TV using RCA cable as follows.



### 3. Using RF Cable

Connect the product and TV using RF cable as follows.

**Note:** If you connect to the TV using RF cable, you should set the UHF channel in advance.  
Please refer to **10.2.4 UHF tuning**.

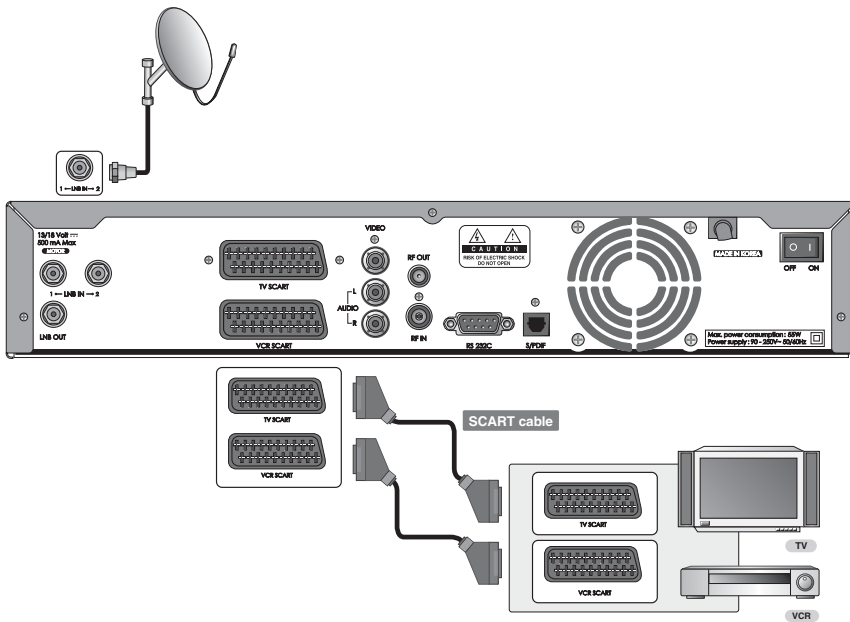


## Chapter 2. Setup

### 2.3 Connecting TV and VCR

#### 1. Using SCART Cable

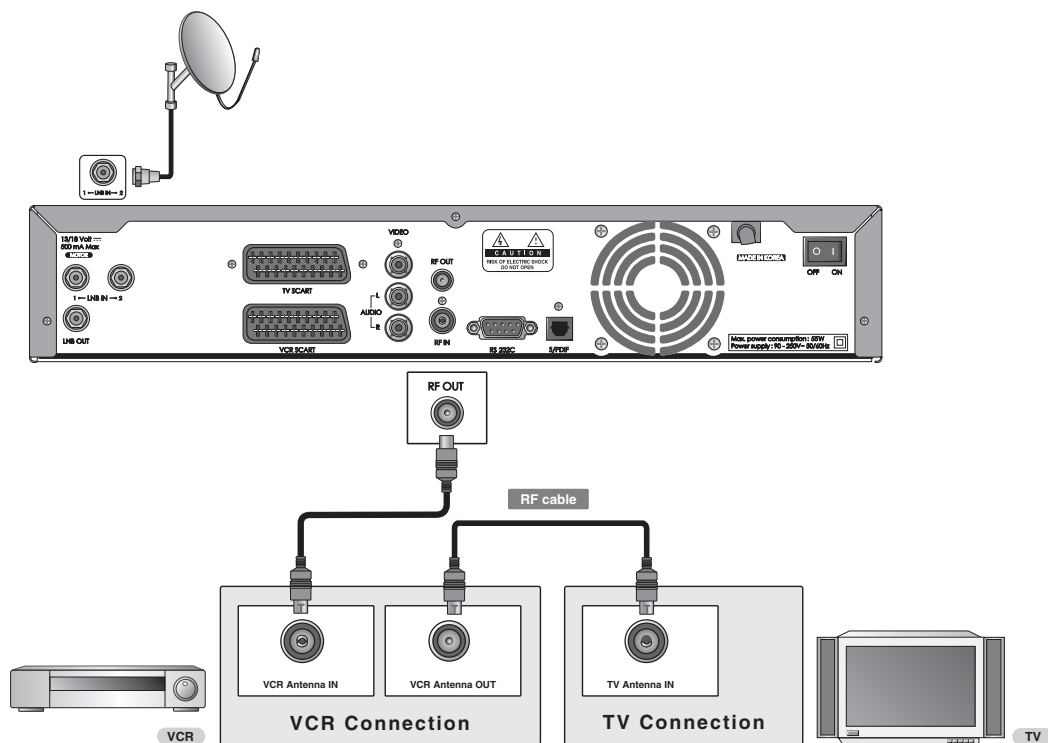
Connect the product and TV/VCR using SCART cable as follows.



## 2. Using RF Cable

1. Connect the RF OUT and the ANTENNA IN of the VCR using an RF (coaxial) cable.
2. Connect the ANTENNA OUT of the VCR and the ANTENNA IN of the TV using an RF (coaxial) cable.

**Note:** If you connect to the TV using RF cable, you should set the UHF channel in advance.  
Please refer to **10.2.4 UHF tuning**.



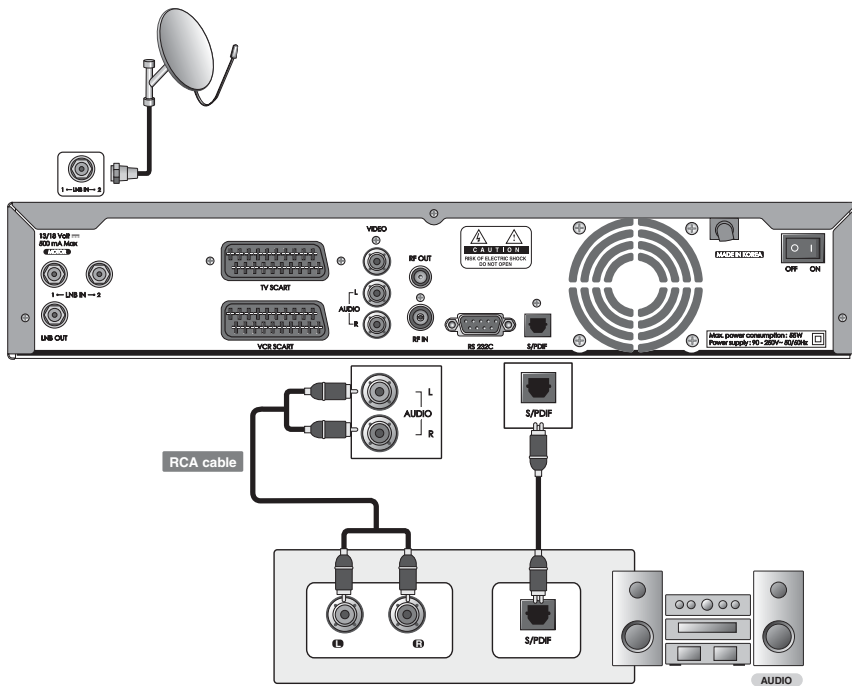


## Chapter 2. Setup

### 2.4 Connecting Audio System

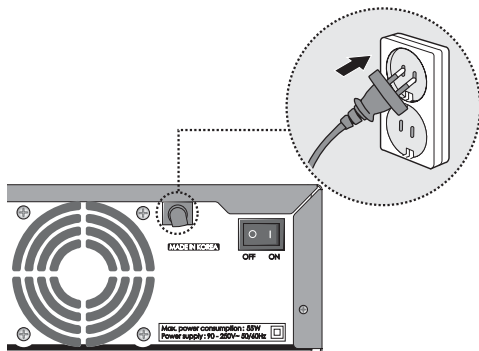
Select the most appropriate procedure for your convenience.

- Connect one end of the AUDIO L, R to the rear of the product and the other end to a rear of the audio system.
- Connect the optical S/PDIF terminal and Dolby Digital decoder to listen to higher quality sound.

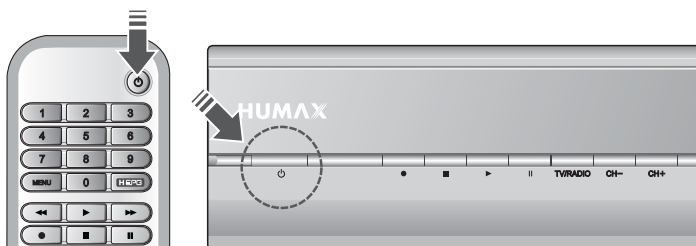


## 2.5 Powering On

1. Connect the power cord of the product to a wall outlet.
2. Turn on the power switch located at the back left of the product.



3. Power on by pressing the **STANDBY** (⏻) button on the remote control or the **STANDBY** (⏻) button on the front of the product.



## Chapter 3. Installation Wizard

When powering on your product for the first time after purchase, the installation wizard will operate automatically.

**The default PIN-Code is 0000.**

**If you have forgotten your PIN-Code, please contact your local product distributor.**

### 3.1 Language

You can select the main language.

Select the appropriate language from the list and press the **OK** button to save the selected language as a default language.

You can also select the language using the **COLOUR** buttons.

**Note:** The display language may differ according to country.



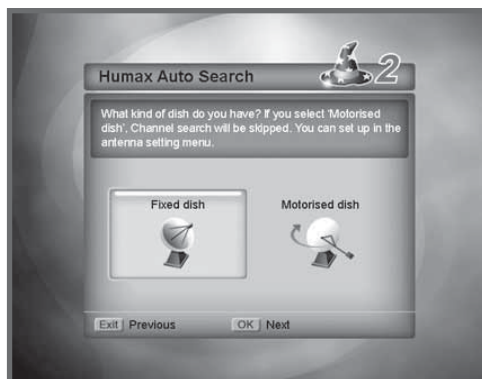
## 3.2 Humax Auto Search

You can search satellites and channels.

If the product is connected to the antenna and TV, you can automatically search satellites and channels without entering any other information.

**Warning:** Please note that once you perform **Humax Auto Search**, all data such as antenna setting information, channel lists and Smartcard information you already set are deleted.

1. Select the kind of dish you have using the ◀▶ button to search satellites. If you select **Motorised dish**, channel search will be skipped. You can set up in the antenna setting menu.



2. Satellite search will activate.
3. After completing search operation, the result window will be displayed.
4. Select **Continue** and press the **OK** button to search channels. If you want to retry satellite search, select **Retry** and press the **OK** button.
5. After completing search operation, select **Save** and press the **OK** button to save the results.



**Note:** To return to the previous screen, press the **EXIT** button and press the **OK** button to proceed.

## Chapter 3. Installation Wizard

### 3.3 Time Setting

You can set the time.

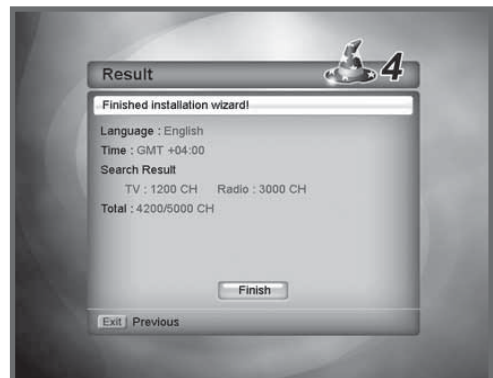
1. Select **Current Time** and press the ◀▶ button to enter the time using the ◀▶ or **NUMERIC(0-9)** buttons.
2. Select **Time Offset** and press the ◀▶ button to set the time zone.
3. Select **Daylight-Saving time** and press the ◀▶ button to set whether or not to use the daylight- saving time.

**Note:** You should set the time to use the accurate information of TV guide.



### 3.4 Result

After all setting is complete, you can view the result screen. Press the **OK** button to complete the installation wizard.



## Chapter 4. Basic Operation

This chapter describes the basic functions of the product such as switching channel, volume control and other basic features for watching programmes.

### 4.1 Switching Channel

You can switch the current channel using one of the following methods.

1. Press the **CH+ / CH-** or **▲/▼** button.
2. Enter the channel number using the **NUMERIC(0-9)** buttons to move to the channel directly.
3. Press the **TV/RADIO** button to switch between TV channels and radio channels.

#### Note:

- The channel will be switched in the last channel group you have watched. Please refer to **Chapter 6. Channel List**.
- You can switch channels using the channel list or TV guide.
- To return to the previous channel, press the **RECALL** button.

### 4.2 Volume Control

You can adjust the volume.

1. Press the **VOL+/VOL-** or **◀/▶** button to adjust the audio volume.
2. Press the **MUTE** button to stop the audio temporarily.

**Note:** The mute function remains set while you switch channels.



### 4.3 Subtitle

You can select the language for the subtitle if the programme provides subtitle information.

1. Press the **SUBTITLE** button.
2. Select the required subtitle language and press the **OK** button. The subtitle will be displayed in the selected language at the bottom of the screen.



## Chapter 4. Basic Operation

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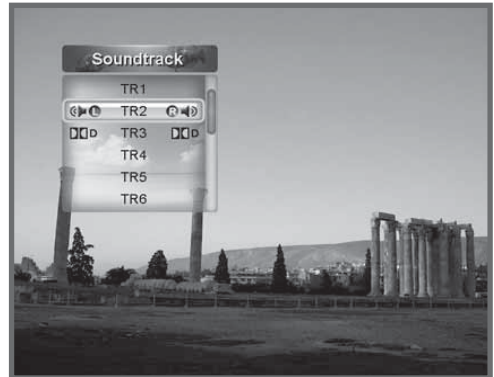
### 4.4 Soundtrack

You can select the language you prefer if the current programme is available in multiple audio languages.

1. Press the **SOUNDTRACK** button.
2. Select the audio language you prefer and press the **OK** button to change the audio immediately.
3. Select the soundtrack direction (left, right, stereo) using the **◀/▶** button.

**Note:**

- If the programme is broadcast in Dolby Digital, you cannot set the soundtrack direction.
- There is no sound if you connect to TV using SCART or RCA cable and select Dolby Digital in soundtrack.



## 4.5 Teletext








When the channel supports teletext, the teletext icon (  ) is displayed on the i-plate

1. Press the **TELETEXT** button.
2. To display teletext menu, press the **MENU** button in teletext mode.
3. Select the teletext function you want and press the **OK** button. To view the teletext page, use the **CH+/CH-**, **RECALL** or **NUMERIC(0-9)** buttons.

**Note:** You also can enter the teletext mode by pressing the **SUBTITLE** button.



### Teletext Functions

- |   |                    |   |
|---|--------------------|---|
|    | <b>Index</b>       | Returns to index page. If there is no index page, jump to page 100. |
|    | <b>Sub-page</b>    | Searches the sub-page using the sub-code written by users.          |
|   | <b>MIX</b>         | Adjusts transparency of teletext screen.                            |
|  | <b>Cancel</b>      | Hides the teletext except page number.                              |
|  | <b>Reveal</b>      | Displays the concealed information.                                 |
|  | <b>Double Size</b> | Displays the text size as double size.                              |
|  | <b>Page Hold</b>   | Holds the current page not updating it.                             |



# Chapter 4. Basic Operation

## 4.6 Programme Information (i-plate)










Programme information is always displayed for a certain period of time each time you switch channels. You can view the programme information by pressing the **i** button while watching a programme. Press the **EXIT** button to hide the i-plate.

### 1. General Information

The general information is displayed on the screen as the following.



- |                          |                            |
|--------------------------|----------------------------|
| 1. Next/previous channel | 2. Channel number and name |
| 3. Programme name        | 4. Signal strength/quality |
| 5. Current time          | 6. Next programme info     |
| 7. Broadcasting time     |                            |
| 8. Icons                 |                            |

-  Displayed only if the programme is recording.
-  Displayed only if the programme is reserved for recording.
-  Displayed only if the programme is reserved for watching.
-  Represents parental level. Indicates the minimum level of age for viewing the programme.
-  Displayed only when the channel is a locked channel.
-  Displayed only when the subtitle information is available.
-  Displayed only when the channel is a scrambled channel.
-  Displayed only when there is any teletext information.
-  Displayed only when the programme is broadcast in Dolby Digital.

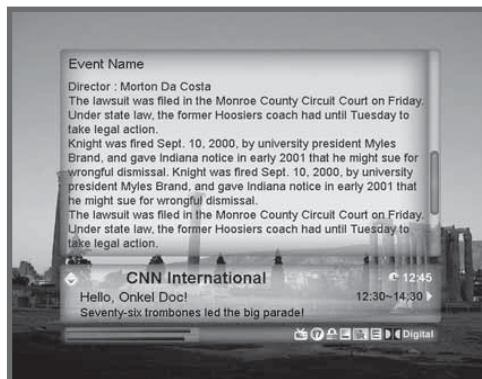
**Note:** If there is no programme information available, programme information is not displayed.

## 2. Detailed Programme Information

You can see the detailed information about the current programme. Press the **i** button where the i-plate is displayed to view detailed information.

### Note:

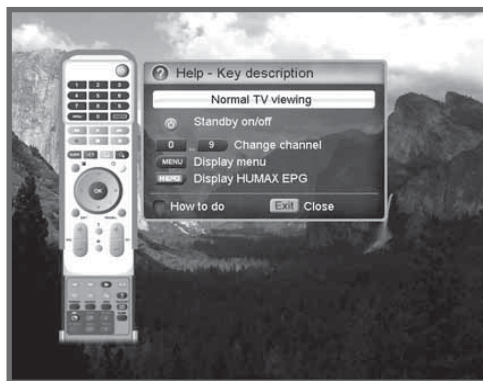
- Press the **i** button again to hide the information box.
- If the detailed programme information is more than one page, use the **▲/▼** button to move to the previous/next page.



## 3. Help Box

The help box provides information on how to use the product and key descriptions.

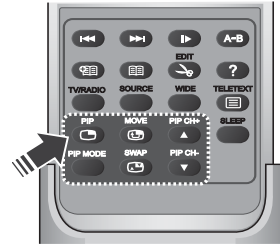
1. Press the **?** button while viewing the programme to display the help box on the screen.
2. Select an item you want to look up and press the **OK** button.
3. Press the **RED** button to display the key description.



# Chapter 4. Basic Operation

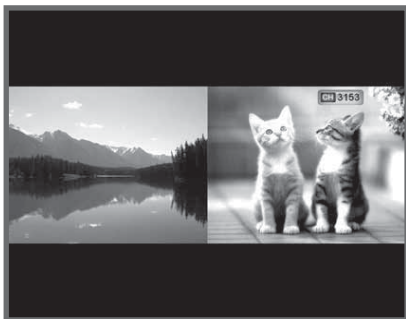
## 4.7 PIP (Picture-in-Picture) Screen

Press the **PIP** button while watching TV to watch two channels at the same time. The audio from the main screen will be outputted.  
Press the **PIP** button to exit the PIP mode.



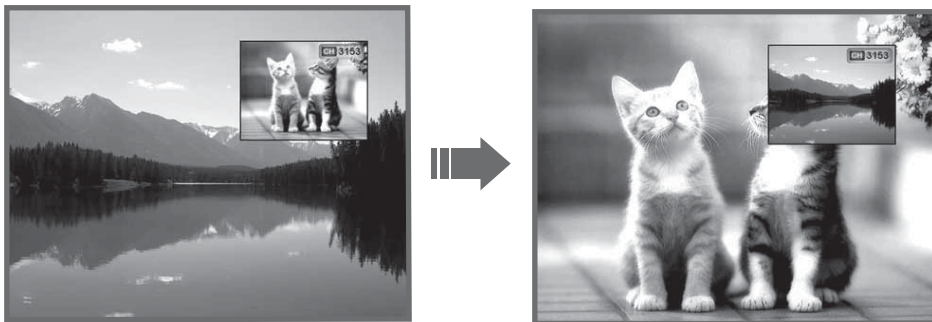
### 1. Changing the PIP mode

Each time you press the **PIP MODE** button, the PIP size is changed, as displayed in the following figure.



## 2. Swapping the PIP screen

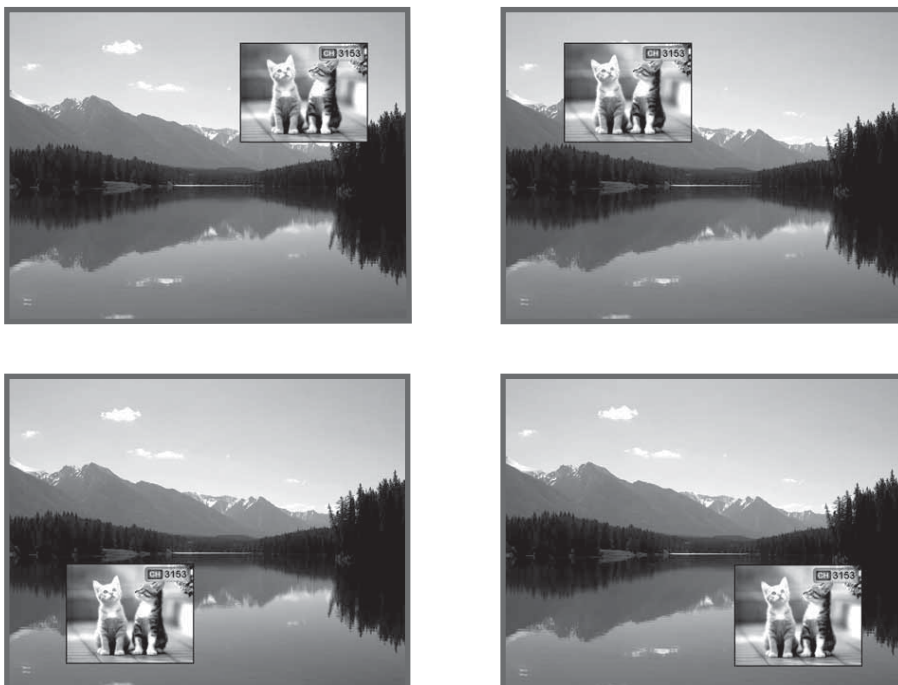
Press the **SWAP PIP** button to swap the main screen for the PIP screen.



## 3. Moving the PIP screen

You can move the position of the PIP screen.

Each time you press the **MOVE PIP** button, the PIP screen moves, as displayed in the following figure.



# Chapter 4. Basic Operation

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## 4. Switching channels in the PIP screen

You can change the PIP channel.

Press the **PIP CH+ / PIP CH-** button to change the channel on the only PIP screen.



## 4.8 Zoom

You can enlarge the screen.

Each time you press the **ZOOM** button, the magnification increases in the following sequence: 200%, 300%, 400%.



## 4.9 Wide

You can set the display format easily.

Each time you press the **WIDE** button, the display format changes.

**Note:** For more information about display format, refer to **10.2.3 A/V Output Setting**.



Screen ratio 4:3		Screen ratio 16:9	
Format	Icon	Format	Icon
Letterbox		Pillar box	
Center		Full	
Auto		Auto	

## 4.10 Sleep

You can set the time when the product is automatically powered off.

1. Press the **SLEEP** button while watching to set the sleep time.
2. Each time you press the **SLEEP** button, the time changes in the following sequence: 10, 20, 30, 60, 90, 120 minutes.

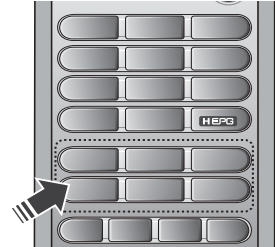


## Chapter 5. PVR

### 5.1 TSR (Time Shifted Recording)

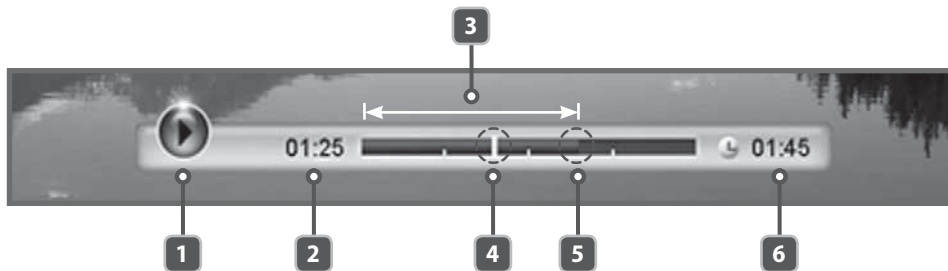
You can perform time shift operations like VCR functions using the playback control buttons while playing a programme.

The product automatically saves the programme on screen to the built-in hard disk drive temporarily, so that users can pause, play, fast rewind, fast forward, etc. even while watching the currently broadcasting TV programme.



#### 1. Time Bar

Press the **PLAY** button while watching a programme to display the time bar. Time bar displays the current operation status, the time gap between the broadcasting point and watching point and the amount of temporarily saved programme.



- |                                 |                        |
|---------------------------------|------------------------|
| 1. Operation status             | 2. Watching point time |
| 3. An amount of saved programme | 4. Watching point      |
| 5. Broadcasting (Live) point    | 6. Current time        |

## 2. Pause

1. Press the **PAUSE** button to pause the current programme.
2. If you press the **PAUSE** button once again, the programme is resumed from that point.



**Note:** Pause makes the time gap or delay between the broadcasting (live) point and watching point. The time gap is equal to the period the programme was paused. Operations like slow motion and fast rewind also make the time gap. Press the **STOP** button to close the time gap and go to the live programme.

## 3. Fast Rewind

1. Press the **FAST REWIND** button to watch the scene passed by.
2. Each time you press the **FAST REWIND** button, the rewind speed increases in the following sequence: x 2, x 4, x 6, x 8, x 10.
3. If you press the **PLAY** button, the fast rewind operation stops and the programme is played at normal speed.



**Note:** You can fast rewind back to the start point. If you reach the start point while rewinding, the programme is automatically played at normal speed from that point.



## Chapter 5. PVR

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### 4. Fast Forward

1. Press the **FAST FORWARD** button to fast forward the programme.
2. Each time you press **FAST FORWARD** button, the speed increases in the following sequence:  
x 2, x 4, x 6, x 8, x 10.



3. If you press the **PLAY** button, the fast forward operation stops and the programme is played at normal speed.

**Note:** You can use the fast forward operation only when there is a time gap between the current watching point and the broadcasting (live) point caused by some previous operations such as pause, slow motion or fast rewind. You can fast forward to the current broadcasting point. If the watching point reaches the broadcasting (live) point, the programme is automatically played at normal speed.

### 5. TSR Recording

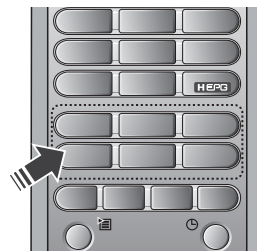
Press the **RECORD** button while TSR is operating to record immediately the watching programme. While the time shift operation records the programme temporarily, this record operation records the programme permanently so you can playback the recorded file at any time. For more information about recording, refer to **5.2 Recording**.

## 5.2 Recording

Using the built-in hard disk drive, you can record a programme without an external media device such as a VCR.

### Note:

- Ensure that there is enough free space before recording. If the free space on the hard disk drive is insufficient, recording will stop. Recording one hour of programme may require up to 2 or 3GB of hard disk space. The space for recording 1 hour of programme may be different depending on the programme recorded.
- You can record radio programmes also.
- Pressing the **STANDBY** button while recording will not stop the recording. After completing recording, the product goes to standby mode.
- Press the **i** button to display the recording list and i-plate.



### 1. General Recording

1. Press the **RECORD** button to record the current programme instantly. The product will record the live broadcast feed, so if you are watching a time-delayed recording, the product will not save what you are currently watching.



2. Press the **RECORD** button again while recording to adjust the recording duration. You can adjust the recording duration by -/+10 minutes using the ◀/▶ button and then press the **OK** button.



# Chapter 5. PVR

## 2. Multi-Channel Recording

1. If you change channels while recording and press the **RECORD** button, recording starts.
2. You can record up to four channels simultaneously. While recording four channels simultaneously, you cannot perform TSR (Time Shifted Recording), however, programmes on air can be viewed.
3. If you press the **RECORD** button again while recording four other channels, you will be prompted to stop one of the currently recording channels.



## 3. Stop Recording

1. Press the **STOP** button to stop recording one of the four other channels.
2. You will be prompted to select one among the currently recording channels. Select the channel you want to stop recording.
3. Select **OK** and press the **OK** button.



## 4. Resource Shortage Alert

If there is not enough resource for the operation, a notice pop-up will appear. Select one of the following options.



## 5.3 Playback

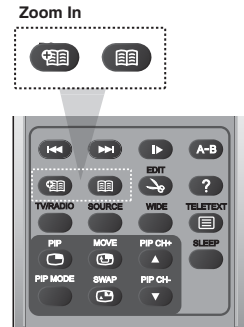
You can view the recorded files in the **Menu> Media List>Video**. You also can easily view the recorded file list by pressing the **MEDIA LIST** button.

**Note:** For more information about playback, refer to **7.1.2 Play Mode**.

## Chapter 5. PVR

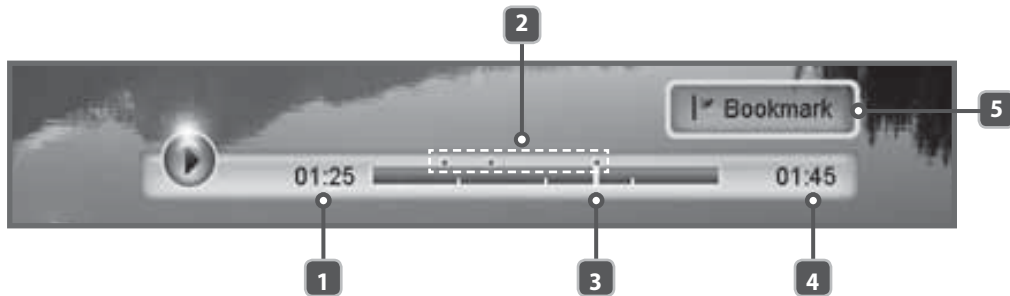
### 5.4 Bookmark

You can jump to a position directly using the bookmark feature of recorded file playback. Use bookmarks to search a certain scene very quickly and easily.



#### 1. Add bookmark

Press the **ADD BOOKMARK** button at the location you want to set a bookmark while playing back a recorded file. The bookmark icon is displayed at the lower right of the screen.

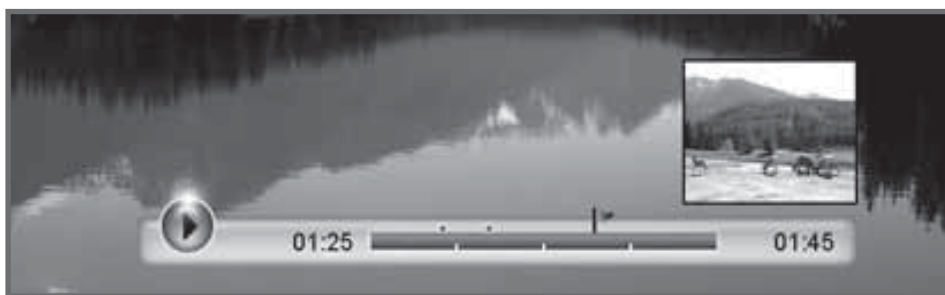


1. Watching point time
2. Indication of bookmark
3. Watching point
4. Total time
5. Bookmark icon

**Note:** The bookmark function is only available for recorded files.

## 2. Bookmark List

1. Press the **BOOKMARK LIST** button after adding a bookmark.
2. Select the location you want to view using the ◀/▶ button. Then the bookmark image is displayed at the lower right of the screen.
3. Select the location you want to view and press the **OK** button to start playback from the location you have selected.
4. Press the **BOOKMARK LIST** button again to return to the play bar.
5. After selecting the location you want to delete, press the **ADD BOOKMARK** button.



## 5.5 Additional Time Shift Operations

You can perform additional time shift operations using the following buttons on the remote control.

### 1. Previous Chapter/Next Chapter

You can move to previous/next chapter while playing back the recorded file. Press the **PREVIOUS/NEXT** button to move to the previous/next chapter.

Zoom In



## Chapter 5. PVR

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### 2. Slow Motion

1. Press the **SLOW MOTION** button to play the current programme in slow motion.
2. Each time you press the **SLOW MOTION** button, the speed decreases in the following sequence: x 1/2, x 1/4, x 1/6, x 1/8.
3. Press the **PLAY** button to stop playing in slow motion and return to normal speed.



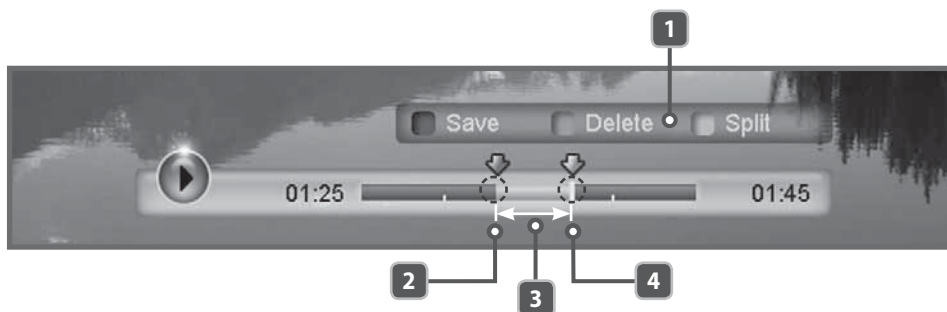
### 3. Repeat Mode

You can select a specific block within the recorded file and play it back repeatedly.

1. Press the **A-B** button to set the first repeating position and press the **A-B** button again to set the second repeating position.
2. The programme plays back the selected block repeatedly.
3. Press the **A-B** button to stop.

## 5.6 Editing Recorded File

You can edit the recorded file by pressing the **EDIT** button while playing back.



- |   |                                   |
|---|-----------------------------------|
| 1. COLOUR buttons – Save, Delete, Split | 2. Starting point of editing area |
| 3. Editing area                         | 4. Ending point of editing area   |

### 1. Save

You can save a part of the recorded file.

1. Press the **EDIT** button to select the starting point.
2. Select the ending point using the **◀▶** button and press the **OK** button.
3. Press the **RED** button to save the selected part.
4. A pop-up will appear. Select **Yes** and press the **OK** button.
5. To rename the edited programme, select **Rename** and press the **OK** button.

### 2. Delete

You can delete a part of the recorded file.

1. Press the **EDIT** button to select the starting point.
2. Select the ending point using the **◀▶** button and press the **OK** button.
3. Press the **GREEN** button to delete the selected part.
4. A pop-up will appear. Select **Yes** and press the **OK** button.

### 3. Split

You can split the recorded file into separate parts.

1. Press the **EDIT** button to select the starting point.
2. Select the ending point using the **◀▶** button and press the **OK** button.
3. Press the **YELLOW** button to split the selected part.
4. A pop-up will appear. Select **Yes** and press the **OK** button.
5. To rename the edited programme, select **Rename** and press the **OK** button.



## Chapter 6. Channel List

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This chapter will help you display the channel list and switch to another channel.

Five types of channel lists are provided for quick and easy channel search.

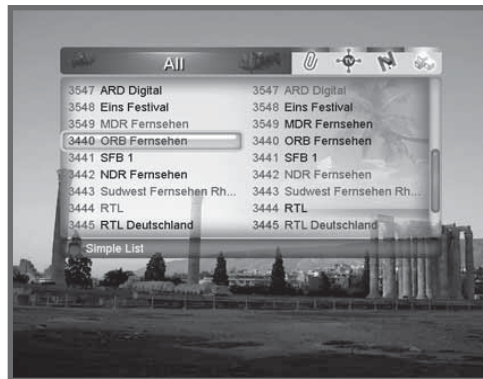
<b>All (RED)</b>	The list of all TV/radio channels
<b>Favourite (GREEN)</b>	The lists of favourite channels
<b>Auto</b>	The list of channels classified by frequency in favourite channel list
<b>FTA</b>	The list of channels classified by free to air in favourite channel list
<b>CAS</b>	The list of channels classified by CAS in favourite channel list
<b>Humax EPG</b>	The list of channels classified by Humax EPG in favourite channel list
<b>A~D</b>	The list of favourite channels with four subgroups that you can organize channels by your private taste
<b>Bouquet (YELLOW)</b>	The lists of channels classified by bouquets
<b>Satellite (BLUE)</b>	The lists of channels classified by satellites
<b>Alphabet (WHITE)</b>	The lists of channels classified by alphabet

### Note:

- Press the **EXIT** button to exit the channel list.
- The sub-group of favourite channel list may exist or not depending on your configuration.
- Each time you press the **TV/RADIO** button while the channel list is displayed, the channel list will be switched between TV and radio channel list.

## 6.1 Simple/Advanced Channel List

1. Press the **OK** button while viewing a programme to display the channel list. You can also display the channel list by selecting **MENU>Channel List>Simple/Advanced**.
2. Press the **COLOUR** button to display the corresponding channel list.



### Note:

- You can display the **Simple/Advanced Channel List** directly by pressing the **RED** button again while **All channels list** (simple or advanced) is displayed.
- When pressing the **OK** button, the last channel list type you used (simple or advanced) will be displayed.
- Press the **COLOUR** button the same as the colour of each channel list to move the cursor to another column.
- The colour of the channel name is changed to red while the channel is being recorded.
- The colour of the channel is changed to blue when the channel is restricted by recording. You cannot view the channel.

# Chapter 6. Channel List

## 6.2 Switching Channels

1. Select the channel you want using the ▲/▼ button and press the **OK** button to switch to the selected channel. You can also switch channels using the **CH+/CH-** or **NUMERIC(0-9)** buttons.
2. Press the ◀▶ button to move to the previous/next page.

## 6.3 Option in Channel List

1. Press the **MENU** button while the channel list is displayed.
2. Select **Favourites** and press the ◀▶ button to select one or more groups from the four Favourite groups. Then press the **OK** button to put into Favourite groups.



3. Select **Lock** and press the ◀▶ button to lock or unlock. When unlocking a locked channel, a pop-up requiring your PIN-Code will appear. Enter your PIN-Code. The default PIN-Code is **0000**.
4. Select **Skip** and press the ◀▶ button to skip the channel.



5. Select **Delete** and press the **OK** button to delete the channel. A pop-up will appear. Select **OK** and press the **OK** button to confirm your choice.
6. After setting property of channel, press the **EXIT** button to save the changes.



**Note:**

- When switching to a locked channel, you should enter the PIN-Code to view the channel.
- To view skipped channels, enter the channel number using the **NUMERIC(0-9)** buttons or select the channel using the channel list.
- For detailed information about how to register all channels as favourite channels, refer to **10.3.1 Organising TV/Radio Channels**.



## Chapter 6. Channel List

### 6.4 Recorded Files in Channel List

1. All channels have the recorded files have this icon (  ) on the channel list.
2. Select the channel this icon (  ) is displayed and press the **MEDIA LIST** button to display the recorded files list.
3. Press the **MEDIA LIST** button again to display the media list.
4. Select the file you want and press the **OK** button to start playing.



## Chapter 7. Media List

1. Press the **MENU** button.
2. Select **Media List** and press the **OK** button to display the media list.
3. You can also display the list by pressing the **MEDIA LIST** button.

<b>Video (RED)</b>	The recorded file list
<b>Recording (GREEN)</b>	The recording file list
<b>MP3 (YELLOW)</b>	The MP3 file list
<b>Image (BLUE)</b>	The image file list

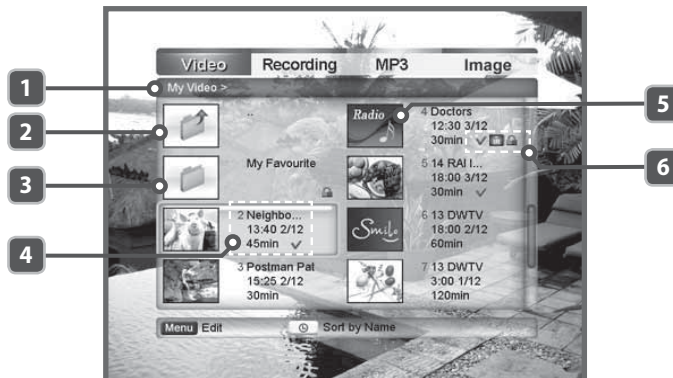


### 7.1 Video List

Press the **RED** button to display the recorded file list while displaying the media list.

#### 1. Information of the Video List

The video list is displayed as the following on the screen.



- |                           |   |
|---------------------------|---|
| 1. Path of present folder | 2. Upper folder                                 |
| 3. Sub folder             | 4. Serial No, file name, time&date and duration |
| 5. Radio file             | 6. Icon of lock, CAS and play list              |

#### Note:


- Press the **WHITE** button to sort by name or time.
- The icon (●) will be displayed when the file is being played.

# Chapter 7. Media List

## 2. Play Mode

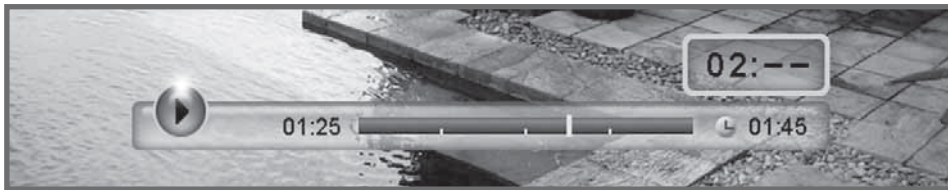
1. Select a recorded file you want to playback and press the **OK** button.
2. A pop-up will appear to select the play mode.
3. Select **Play from the beginning** and press the **OK** button to play the recorded file from the beginning.
4. Select **Play from recent watching** and press the **OK** button to play the recorded file from the point you stop playing.
5. Select still image and press the ◀▶ button to select the chapter you want to view.

### Note:

- If you select a scrambled file (  ), you should select **Descramble a File**.
- After a long time, the scrambled file may not be descrambled and playback.



### 3. Playback Options



1. You can enter the time you want to view using the **NUMERIC(0-9)** buttons to move to the specified time point directly while playing back.
2. Press the ◀▶ button while playing back to move the watching point bar to a time point you want and then press the **OK** button to play the programme from the specified time point. If you do not press the **OK** button after moving the watching point, it will be moved automatically.
3. You can perform fast rewind, fast forward, slow motion and pause while playing back a recorded file from the media list.
4. Press the **STOP** button to stop the current file and go to the current live programme.

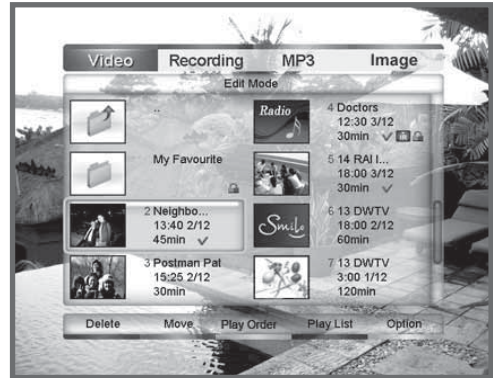
**Note:** For more information on the time shift operations like VCR functions, refer to **5.1 TSR**.



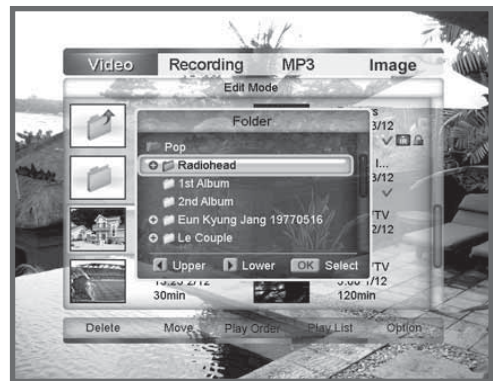
# Chapter 7. Media List

## 4. Edit Mode

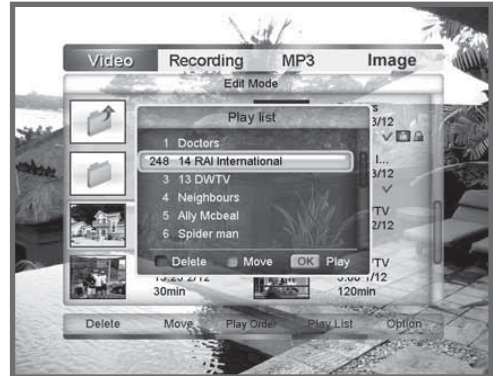
1. Press the **MENU** button to enter **Edit Mode** while displaying the video list.
2. Select the file you want and press the **RED** button to delete. To cancel deleting, press the **RED** button again. And then press the **OK** button to delete. When deleting a locked file, a pop-up requiring your PIN-Code will appear. Enter your PIN-Code. The default PIN-Code is **0000**.



3. Select the file you want and press the **GREEN** button to move to upper/sub folder. To cancel moving, press the **GREEN** button again. And then press the **OK** button to display a folder list. Select the folder you want and set to move to upper/sub folder using the **◀/▶** button. And press the **OK** button.
4. Select the file you want and press the **YELLOW** button to add to the play list. To cancel adding, press the **YELLOW** button again.



5. Press the **BLUE** button to display the play list.  
To delete a file from the play list, press the **RED** button.  
To move a file to the destination in the play list, press the **GREEN** button to select a file, move to the selected location and press the **GREEN** button again.  
Press the **OK** button to play the file.



6. Select the file you want and press the **WHITE** button to display the option pop-up.  
Select **Lock/Unlock** and press the ◀▶ button to lock or unlock. When unlocking a locked file, a pop-up requiring your PIN-Code will appear. Enter your PIN-Code. The default PIN-Code is **0000**.



Select **Rename** and press the **OK** button to rename.  
Enter a file name directly using the keyboard displayed on the screen.

Select **Make folder** and press the **OK** button to make a new folder.

Enter a folder name directly using the keyboard displayed on the screen. When entering folder name is complete, press the **YELLOW** button to complete.

7. Press the **MENU** button to exit the edit mode.



**Note:** When deleting or moving a locked file, a pop-up requiring your PIN-Code will appear. Enter your PIN-Code. The default PIN-Code is **0000**.

# Chapter 7. Media List

## 7.2 Recording List

1. Press the **GREEN** button to display the recording file list while displaying the media list.
2. Select a file being recorded and press the **OK** button to display the PIG screen.
3. Press the **MENU** button to display **Edit Recording** pop-up.
4. Select **End Time** and change the end time using the **NUMERIC(0-9)** buttons or **◀/▶** button.
5. Select **OK** and press the **OK** button to save the end time.  
Select **Stop** and press the **OK** button to stop recording.



## 7.3 MP3 List

1. Press the **YELLOW** button to display the MP3 list while displaying the media list.
2. Select the MP3 file you want and press the **OK** button to play. Press the **STOP** button to stop playing. And press the **PAUSE** button to pause.

This icon (●) will be displayed when the MP3 file is being played.

**Note:** Press the **WHITE** button to sort by name or time.

3. Press the **MENU** button to enter the edit mode while displaying the MP3 list. Press the **WHITE** button to display the option pop-up. Select **Play mode** and press the ◀/▶ button to set the play mode.

**Shuffle:** Play all of the files in the folder randomly.

**Repeat:** Play the file you select repeatedly.

**Note:**

- All features are similar to those of **Video List**, except the play mode in option. For more information about the edit mode, refer to **7.1.3 Edit Mode**.
- You can download MP3 files stored on the computer via Universal Serial Bus (USB). For more information, refer to **7.5 File Download from PC**.



## Chapter 7. Media List

### 7.4 Image List

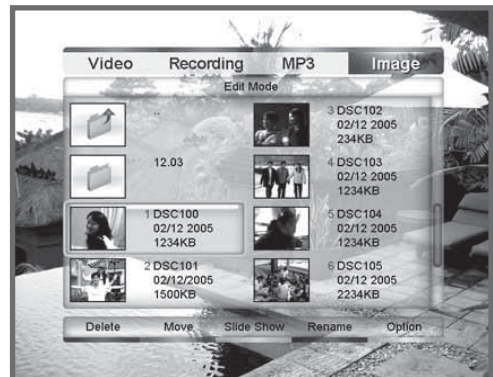
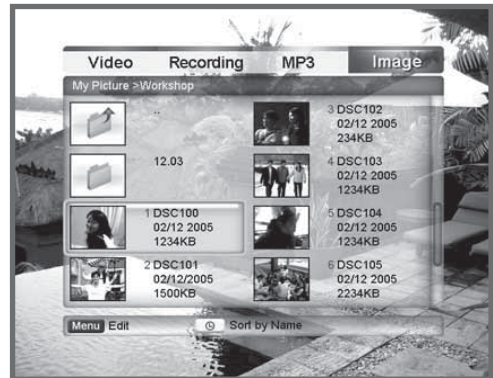
1. Press the **BLUE** button to display the image list while displaying the media list.
2. Select the image file you want and press the **OK** button to enlarge the image.

**Note:** Press the **WHITE** button to sort by name or time.

3. Press the **MENU** button to enter **Edit Mode** while displaying the image list.  
Press the **YELLOW** button to view slide show of the files.  
Press the **BLUE** button to rename the image file.  
Press the **WHITE** button to make a folder.

**Note:**

- All features are similar to those of **Video List**.  
For more information about the edit mode, refer to **7.1.4 Edit Mode**.
- You can download the image files stored in the computer via Universal Serial Bus (USB).  
For more information, refer to **7.5 File Download from PC**
- You can download an image in many image formats including BMP, GIF, ICO, TGA, PCX, WBMP, WMF, JPEG, PNG, MNG, TIFF, JBIG, PNM, PPM, PGM, RAS and JPEG-2000.



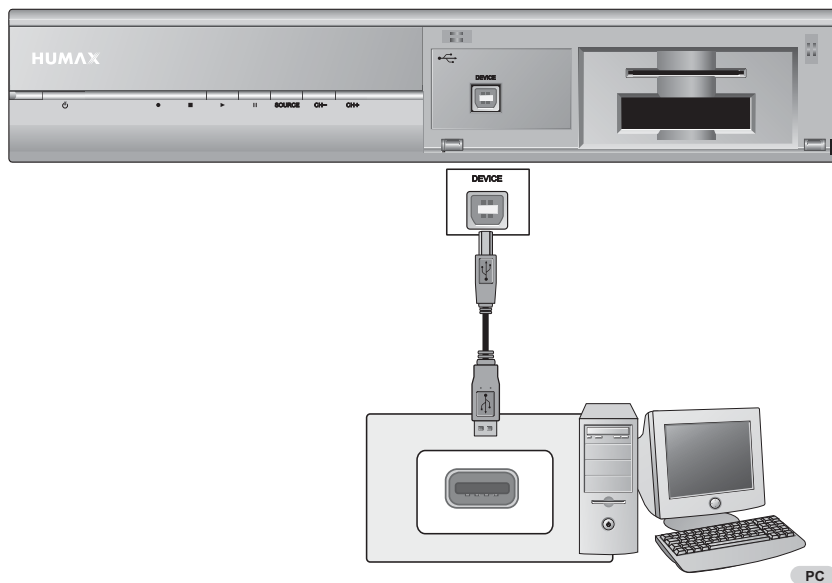
## 7.5 File Download from PC

You can enjoy the music and view the photos by downloading the items from the PC to the product with the MediaShell programme. (USB cables used for external HDDs are purchasable.)

Follow the instructions to download files:

1. Double-click the **MediaShellSetup.exe** on CD-ROM to install the USB driver and application programme.  
You can also download the setup file from [www.humaxdigital.com](http://www.humaxdigital.com).
2. Connect the USB device on the product and USB device on the PC using USB cable.
3. Select **MENU>Installation>Media Setting>Connect USB**.
4. Double-click the **MediaShell** to start USB application.

**Note:** For more information about how to use MediaShell, refer to the readme file on CD-ROM.



# Chapter 8. TV Guide

You can view the detailed programme information of each channel, in time and date order. You can customize your own programme guide to list the channels or programmes of interest to you and schedule your viewing using the programme information.

## 8.1 Viewing TV Guide

You can view the programme information of all channels. Press the **GUIDE** button or press the **MENU** button and select **TV Guide**.

**Note:** Press the **EXIT** button to exit the TV guide screen.

### 1. Information of the TV Guide Screen

The TV guide is displayed as follows on the screen.



- 1. Channel & programme information
- 2. PIG, PIG channel number
- 3. Indication of present time
- 4. Recording icon
- 5. Present date & time
- 6. Group name
- 7. Icon
- 8. Table date & time range

- Displayed only when there is any information of programme.
- Displayed only if the programme is reserved for recording.
- Displayed only if the programme is reserved for watching.
- Represents parental level. Indicates the minimum level of age for viewing the programme.
- Displayed only when the channel is a scrambled channel.



## 2. Using TV Guide

1. Move to the previous/next programme within the same channel using the ◀▶ button.
2. Move to another channel using the ▲/▼ button. If the contents are more than one page, use the **CH+/CH-** button to skip to the next page. Enter the number of the channel you wish to move to using the **NUMERIC(0-9)** buttons.
3. Move to the previous/next programme by page using the **FAST REWIND/FAST FORWARD** button.
4. Move to the previous/next day using the **PREVIOUS/NEXT** button.
5. Select the programme you want and press the **OK** button to play the programme in the PIG. Press the **OK** button again to view the programme.
6. You can reserve it if it is a future programme. Select the future programme and press the **OK** button to see the reservation pop-up. Select the reservation type.

**Record:** Reserved for recording.

**Watch:** Reserved for watching.





# Chapter 8. TV Guide

## 8.2 Style

You can change the style of TV guide.

1. Press the **GUIDE** button.
2. Each time you press the **RED** button, the style of TV guide changes in main, weekly, quick mode order.

### 1. Weekly Style

You can view the programme information for approximately a week.

1. Move to the previous/next column using the ◀/▶ button.
2. Move to the previous/next data using the ▲/▼ button. If the contents are more than one page, use the **CH+**/**CH-** button to skip to the next page.
3. Enter the number of the channel you wish to move to using the **NUMERIC(0-9)** buttons when the cursor is on the channel column.
4. When you change the channel or day, the channel data changes.
5. Select the channel you want and press the **OK** button to play in the PIG when the cursor is on the channel column.
6. You can watch the programme if it is currently on air or reserve it if it is a future programme. Refer to **8.1.2 Using TV Guide**.



## 2. Quick Style

1. You can select the channel using the ▲/▼ button and select the programme using the ◀/▶ button.
2. Select the programme you wish to view and press the **OK** button. You can watch the programme if it is currently on air or reserve it if it is a future programme. Refer to **8.1.2 Using TV Guide**.
3. The quick style changes to the auto style automatically. The channel information will be scrolled. To change to the quick style, press the **EXIT** button.

### Note:

- Press the **TV/RADIO** button to switch between TV and radio channels.
- Press the **i** button to view detailed information of the chosen programme.



# Chapter 8. TV Guide

## 8.3 Find

You can find the programme you want by entering the keyword or genre of the programme.

1. Press the **GUIDE** button.
2. Press the **GREEN** button to find programme.
3. You can select **Keyword** and **Genre** using the **▲/▼** button.

### 1. Entering Keyword

1. Select **Keyword** and press the **OK** button.  
A keyboard will appear. Enter a keyword on the keyboard screen.
2. Press the **YELLOW** button to complete.



### 2. Selecting Genre

1. Select **Genre** and press the **OK** button.
2. Select the applicable genre and press the **OK** button.



### 3. Finding Programmes

1. Press the **RED** button to proceed.
2. The search result of the entered values will appear.
3. Select the programme you want and press the **OK** button to play the programme in the PIG if it is currently on air. Press the **OK** button again to view the programme.
4. You can reserve it if it is a future programme. Select the future programme and press the **OK** button to see the reservation pop-up. Select the reservation type.

**Record:** Reserved for recording

**Watch:** Reserved for watching

5. Press the **GREEN** button to return to TV guide.



# Chapter 8. TV Guide

## 8.4 Schedule

You can display the list of the programmes reserved. You can modify, delete or make new reservations.

1. Press the **GUIDE** button.
2. Press the **YELLOW** button.

### 1. Deleting Schedule

1. Select the programme you want to delete and press the **RED** button.
2. A pop-up will appear. Select **Yes** and press the **OK** button.



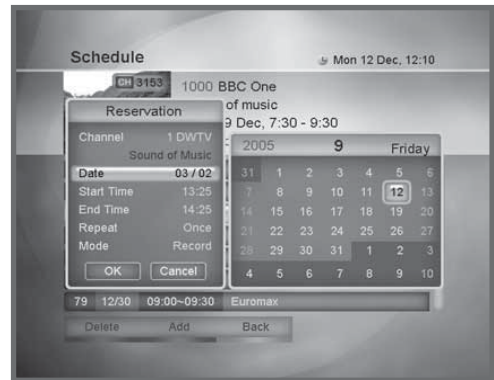
## 2. New Reservation

1. Press the **GREEN** button to make new reservations. Reservation pop-up will appear.
2. Select **Channel** and press the **OK** button. Select the channel group by pressing **COLOUR** button and select the sub channel group using the ◀/▶ button. And select the channel you want using the ▲/▼ button.

**Note:** For more information about selecting channel group, refer to **8.5 Group**.



3. Select **Date** and press the **OK** button to display calendar. Select the date and press the **OK** button.
4. Select **Start Time/End Time** and enter the time using the ◀/▶ or **NUMERIC(0-9)** buttons.
5. Select **Repeat** and press the ◀/▶ button to select an option among **Once, Daily, Weekly** and **Workday**.
6. Select **Mode** and press the ◀/▶ button to choose from **Record** and **Watch**.
7. Select **OK** and press the **OK** button.



**Note:**

- Press the **YELLOW** button to return to TV guide.
- Icon

Repetition	Daily	Weekly	Workday
Icon			

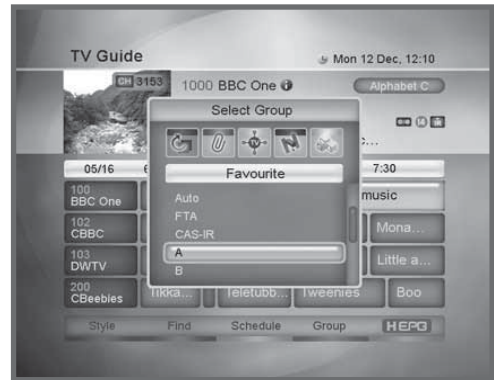
## Chapter 8. TV Guide

### 8.5 Group

You can change the channel group to view programme information for channel list by groups.

1. Press the **GUIDE** button.
2. Press the **BLUE** button.
3. A pop-up will appear. Press the **COLOUR** button to display the corresponding channel group and select the sub channel group using the **▲/▼** button.

**Note:** There are five types of channel group.



<b>All (RED)</b>	The group of all TV channels
<b>Favourite (GREEN)</b>	The groups of favourite channels
<b>Bouquet (YELLOW)</b>	The groups of channels classified by bouquets
<b>Satellite (BLUE)</b>	The groups of channels classified by satellites
<b>Alphabet (WHITE)</b>	The groups of channels classified by alphabet

## 8.6 Humax EPG

You can view the programme information of all channels using **Humax EPG**.

1. Press the **GUIDE** button.
2. Press the **WHITE** button to display the **Humax EPG**.
3. You can also display the Humax EPG by pressing the **HEPG** button.
4. Press the **BLUE** button to update the EPG data.
5. Press the **WHITE** button to return to the standard EPG.

### Note:

- All features are similar to those of standard EPG.
- If the antenna is set to the Nilسات only, you can use the Humax EPG.



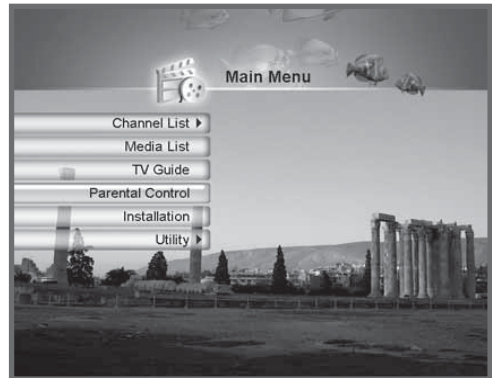


## Chapter 9. Parental Control

You can set rating limits for each programme according to the age of the viewer or change your previous PIN-Code.

1. Press the **MENU** button.
2. Select **Parental Control** and press the **OK** button.  
You will be prompted to enter a PIN-Code. Enter the PIN-Code using the **NUMERIC(0-9)** buttons. The default PIN-Code is **0000**.

**Note:** After changing values, press the **OK** button to save the changes and return to the previous menu.

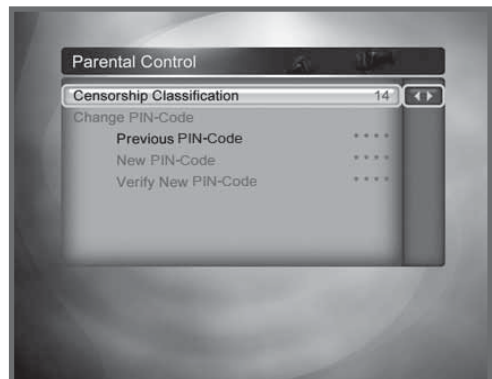


### 9.1 Censorship Classification

You can place certain restrictions on the viewers by setting age limits and require a PIN-Code to view the blocked programmes.

1. Select **Censorship classification** and press the ◀▶ button to select the age level.

- |                         |   |
|-------------------------|---|
| <b>No Block</b>         | All programmes can be watched because there is no age limitation. |
| <b>6 / 10 / 14 / 18</b> | Programmes are blocked for children under the age 6/10/14/18.     |
| <b>Block All</b>        | All programmes are blocked.                                       |



**Note:**

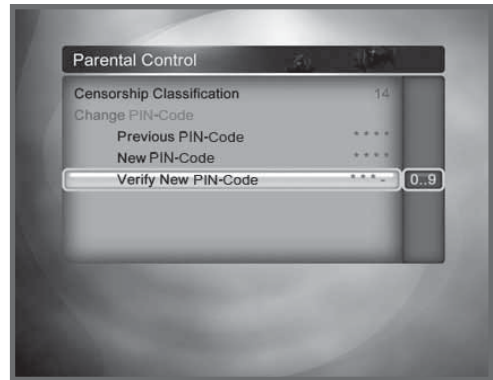
- You have to enter your PIN-Code to watch the programme blocked by the age restriction.
- The default PIN-Code is **0000**.

## 9.2 Change PIN-Code

You can change the current PIN-Code.

1. Select **Previous PIN-code** to change the PIN-Code and enter the previous PIN-Code using the **NUMERIC(0-9)** buttons.
2. Enter the new PIN-Code.
3. Enter the new PIN-Code again to verify changed PIN-Code.

**Note:** The default PIN-Code is **0000**.



# Chapter 10. Installation

## 10.1 Media Setting

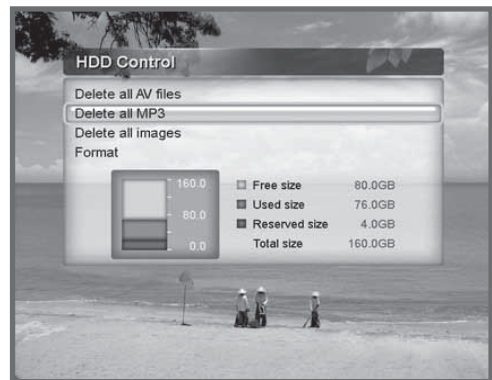
MENU > Installation > Media Setting

**Note:** After changing values, press the **OK** button to save the changes and return to the previous menu.

### 1. HDD Control

You can delete files and format the disk drive if necessary. And you can check the free, used, reserved and total space of the HDD.

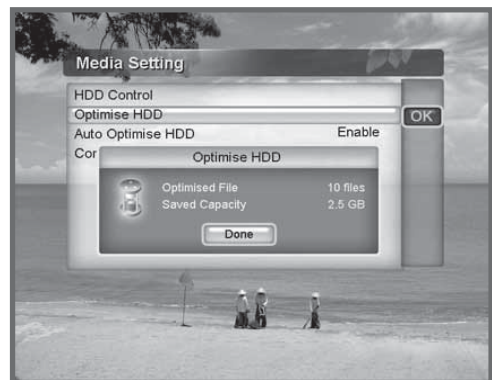
1. Select **HDD Control** and press the **OK** button.
2. Select **Delete all AV files/MP3/images** and press the **OK** button. A pop-up will appear. Select **Yes** and press the **OK** button to delete.
3. Select **Format** and press the **OK** button. A pop-up will appear. Select **Yes** and press the **OK** button to format.



### 2. Optimise HDD

The capacity of the HDD will be optimized making the data transferable via the USB.

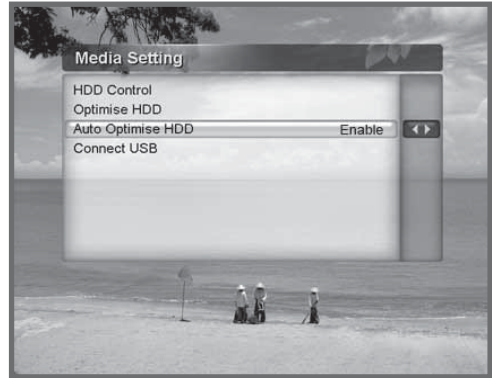
Select **Optimise HDD** and press the **OK** button.



### 3. Auto Optimise HDD

Select **Auto Optimise HDD** and press the ◀▶ button to select **Enable/Disable**.

**Note:** If you select **Enable**, the product optimises the HDD performance frequently.

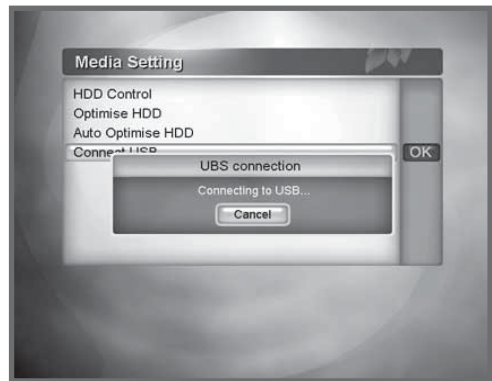


### 4. Connect USB

You can use MediaShell programme to download the files from the PC.

1. Connect the USB device on the product and USB device on the PC using USB cable.
2. Select **Connect USB** and press the **OK** button.
3. Connect to the product using MediaShell programme.

**Note:** For more information about how to use MediaShell, refer to **7.5 File Download from PC** or the readme file on the CD-ROM.



# Chapter 10. Installation

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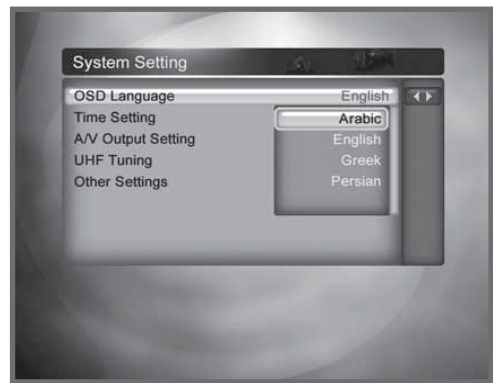
## 10.2 System Setting

**MENU > Installation > System Setting**

**Note:** After changing values press the **OK** button to save the changes and return to the previous menu.

### 1. OSD Language

Select **OSD Language** and press the ◀/▶ button.  
Select the language you want and press the **OK** button.



## 2. Time Setting

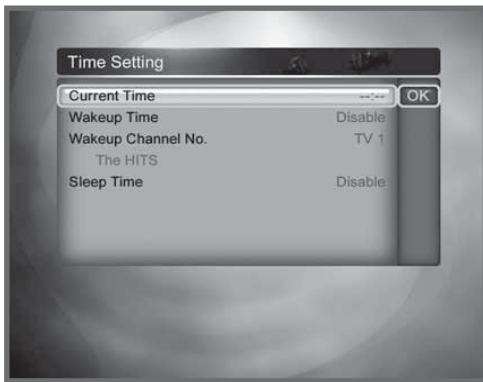
Select **Time Setting** and press the **OK** button.

1. Select **Current Time** and press the **OK** button.

And press the **OK** button again to enter the time using the **◀/▶** or **NUMERIC(0-9)** buttons.

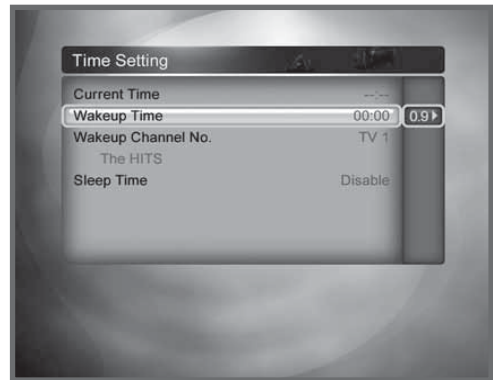
Select **Time Offset** and press the **◀/▶** button to set the time zone.

Select **Daylight-Saving Time** and press the **◀/▶** button to set whether or not to use the daylight-saving time.



2. Select **Wakeup Time** and press the **◀/▶** button. Enter the time using the **NUMERIC(0-9)** buttons.
3. Select **Wakeup Channel No.** and press the **◀/▶** button to change the channel. You can also enter the channel number using the **NUMERIC(0-9)** buttons.
4. Select **Sleep Time** and press the **◀/▶** button. Enter the time using the **NUMERIC(0-9)** buttons.

**Note:** Once Power On/Off is specified, it is repeated everyday.



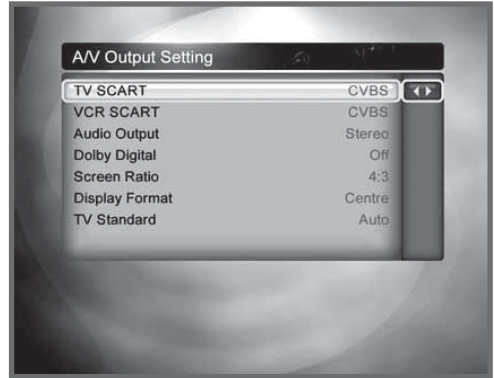
## Chapter 10. Installation

### 3. A/V Output Setting

Select **A/V Output Setting** and press the **OK** button.

1. Select **TV SCART/VCR SCART/Audio Output/Dolby Digital/Screen Ratio** and press the **◀/▶** button to select an option.
2. Select **Display Format** and press the **◀/▶** button.  
When choosing **4:3** as **Screen Ratio**, Select an option among **Letter-box**, **Centre** and **Auto**.  
When choosing **16:9** as **Screen Ratio**, Select an option among **Pillar-box**, **Full** and **Auto**.
3. Select **TV Standard** and press the **◀/▶** button to select an option.

**Note:** You can choose the Dolby Digital audio stream whenever possible by selecting **ON** in **Dolby Digital**.



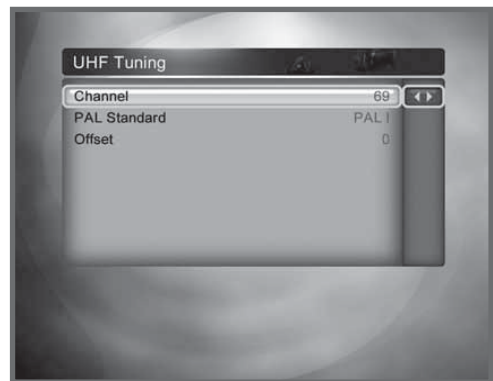
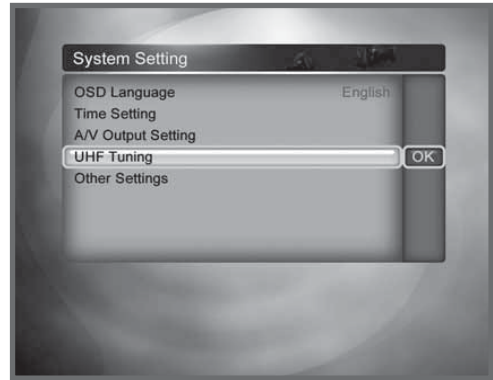
## 4. UHF Tuning

Select **UHF Tuning** and press the **OK** button.

1. Select **Channel** and press the **◀/▶** button.  
The channel range and frequency change according to **PAL Standard**.

<b>CH21~CH69</b>	PAL I/G for Europe
<b>CH28~CH69</b>	PAL B for Europe/Australia
<b>CH13~CH62</b>	PAL D for China
<b>CH21~CH69</b>	PAL K for Russia

2. Select **PAL Standard** and press the **◀/▶** button to select an option. Select a PAL standard according to the above range of channels.
3. Select **Offset** and press the **◀/▶** button to select an option. Adjust fine tuning setting.





# Chapter 10. Installation

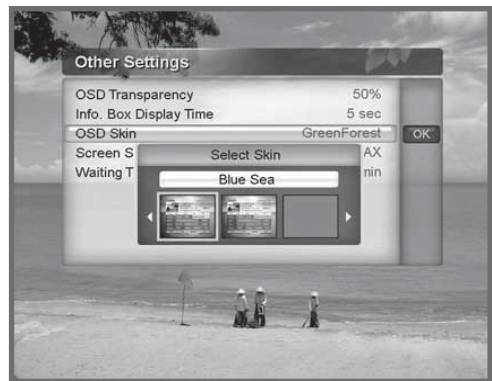
## 5. Other Settings

Select **Other Settings** and press the **OK** button.

1. Select **OSD Transparency** to set the transparency of OSD (On Screen Display) and press the **◀/▶** button to select an option.
2. Select **Info. Box Display Time** to set the automatic display time of the information box when the channel is switched. Press the **◀/▶** button to select an option.

**Note:** When Info. Box Display Time is set to **0**, the info. box will not be displayed when the channel is switched.

3. Select **OSD Skin** and press the **OK** button to change the default skin. Press the **◀/▶** button to select an option.
4. Select **Screen Saver** and press the **◀/▶** button to change the screen saver. Press the **OK** button to display the screen saver. Press the **OK** button again to return to the menu.
5. Select **Waiting Time** and press the **◀/▶** button to change the waiting time.



## 10.3 Organising Channels

**MENU > Installation > Organising Channels**

### Note:

- Press the **EXIT** button to save the changes and return to the previous menu.
- You will be prompted to enter a PIN-Code. Enter the PIN-Code using the **NUMERIC(0-9)** buttons. The default PIN-Code is **0000**.

### 1. Organising TV/Radio Channels

You can edit all TV or radio channels to delete, move, lock, skip or rename the channels you have chosen. Select **Organising TV Channels/Organising Radio Channels** and press the **OK** button.

#### 1. Organising All Channels

Select **Organising All Channels** and press the **OK** button.

Select the channel you want to delete and press the **RED** button. To cancel the deleting, press the **RED** button again.

Select the channel you want to move and press the **GREEN** button. Move the cursor to the destination in the channel list and press the **OK** button.

### Note:

- **Move** is available only for TV or radio channel lists.
- The channel number is changed by using **Move** function.

Select the channel you want to lock and press the **YELLOW** button. If you cancel the lock, press the **YELLOW** button again.

**Note:** To watch locked channels, you must enter the PIN-Code using the **NUMERIC(0-9)** buttons. The default PIN-Code is **0000**.

Select the channel you want to skip and press the **BLUE** button. If you cancel the skip, press the **BLUE** button again.

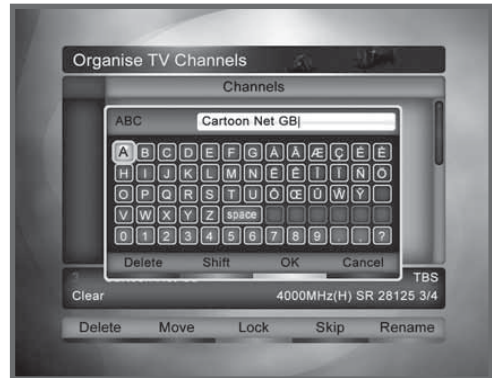


## Chapter 10. Installation

Select the channel you want to rename and press the **WHITE** button. A keyboard will appear. Enter the name on the keyboard screen.

When entering channel name is complete, press the **YELLOW** button to complete.

Before leaving this screen, you will be prompted to save the changes. If you would like to save the changes, select **OK** and press the **OK** button.



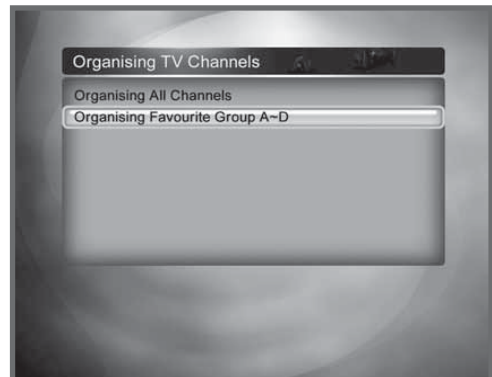
### 2. Organising Favourite Groups A~D

Select **Organising Favourite A~D** and press the **OK** button.

The **Organising Favourite TV/Radio channels** screen consists of **Group** and **Favourite List** on the left side of the screen and **Channel List** on the right side. You can move the highlighter in order of the group, favourite list and channel list using the **▶** button. You can move the highlighter in reverse direction using the **◀** button.

To add channels to favourite list, select a channel in the channel list you want and press the **OK** button.

**Note:** For more information about editing the channels in favourite list, refer to **10.3.1 Organising TV/Radio Channels**.



## 2. Organising Satellites

You can delete the satellites.

1. Select **Organising Satellites** and press the **OK** button.
2. The **Organising Satellites** screen consists of **Satellite** and **Transponder** on the left side of the screen and **Channel List** on the right side. To delete a satellite, select one from the satellite list and press the **RED** button. To cancel deleting, press the **RED** button again.
3. Before leaving this screen, you will be prompted to save the changes. Select **OK** and press the **OK** button to save the changes.



# Chapter 10. Installation

## 10.4 Channel Search

### Note:

- Press the **EXIT** button to save the changes and return to the previous menu.
- You will be prompted to enter a PIN-Code. Enter the PIN-Code using the **NUMERIC(0-9)** buttons. The default PIN-Code is **0000**.

### 1. HUMAX Auto Search

#### MENU > Installation > Channel Search > HUMAX Auto Search

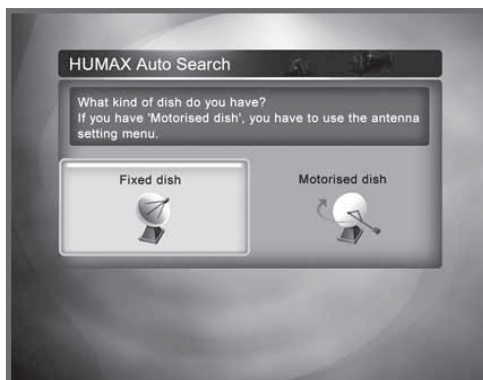
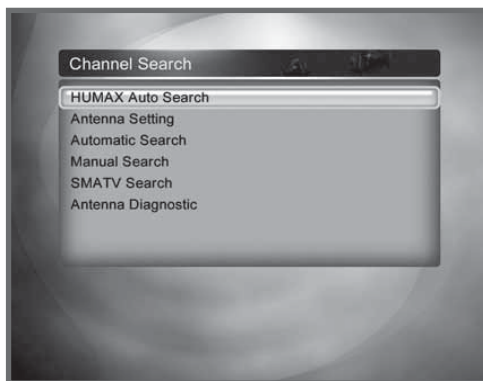
If the product is connected to the antenna and TV, you can automatically search satellites and channels without entering any other information.

**Warning:** Please note that once you perform *Humax Auto Search*, all data such as the antenna setting information channel lists and Smartcard information you already set are deleted.

**Note:** You should set the antenna to Nilesat satellite.

1. Select the dish you are equipped with using the ◀▶ button to search satellites.
2. If you select **Motorised dish**, satellite search will be skipped. You have to configure the setting in the antenna setting menu.
3. Satellite search will activate.
4. After completing search operation, the result window will be displayed.
5. Select **Continue** and press the **OK** button to search channels. If you want to retry satellite search, select **Retry** and press the **OK** button.
6. After completing search operation, select **Save** and press the **OK** button to save the results.

**Note:** To return to the previous screen, press the **EXIT** button and press the **OK** button to proceed.



## 2. Antenna Setting

### MENU > Installation > Channel Search > Antenna Setting (Fixed Antenna)

You can set the antenna and LNB information for channel search. If the antenna is not properly set, channel search cannot be activated which means you cannot watch any of the programmes on air.

**Note:** The product can detect the antenna connection type (Loop-through or separate type) automatically.

#### 1. Antenna Alternative

Add the satellite you set using the ◀/▶ button.

#### 2. Satellite Name

Select **Satellite Name** and press the ◀/▶ button to select the satellite the antenna is pointing to from the options. If the required satellite is not available in the list, select **User Define**. A keyboard will appear. Enter the name of the satellite on the keyboard screen. And press the **YELLOW** button to complete.

#### 3. LNB Frequency

Select **LNB Frequency** and press the ◀/▶ button to select an option.

If the required value does not exist, select **0 (User Define)** and enter the LNB frequency directly using the **NUMERIC(0-9)** buttons.

**Note:** If you select **Universal**, the **22KHz Tone** value is set to **Disabled**.

#### 4. LNB Power

Select **LNB Power** and press the ◀/▶ button to select an option.

#### 5. 22KHz Tone

Select **22KHz Tone** and press the ◀/▶ button to select an option.

**Enable** Dual LNB is used or two antennas are connected to the 22kHz tone switch box.

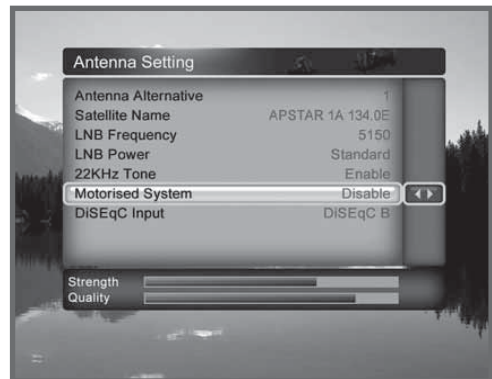
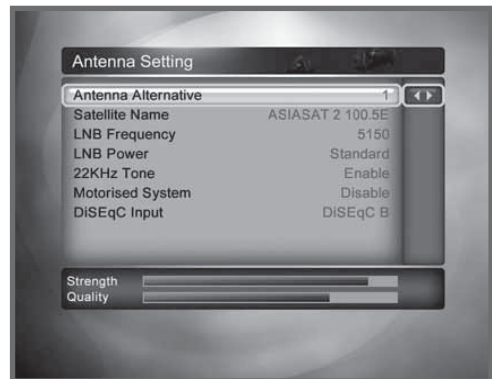
**Disable** 22KHz is not in use.

#### 6. Motorised System

Select **Motorised System** and press the ◀/▶ button to select **Disable**.

#### 7. DiSEqC Input

Select **DiSEqC Input** and press the ◀/▶ button to select an option.



## Chapter 10. Installation

### MENU > Installation > Channel Search > Antenna Setting (Motor Antenna)

When using a motor antenna, set **Motorised System** in the antenna setting to **Enable** before performing channel search.

**Note:** If you use the motor antenna, you should connect to LNB IN 1.

1. The procedures of **Antenna Alternative**, **Satellite Name**, **LNB Frequency**, **LNB Power** and **22KHz Tone** are similar to those of the fixed antenna. Please refer to **Fixed Antenna**.

#### 2. Motorised System

Select **Motorised System** and press the ◀▶ button to select **Enable**.

#### 3. DiSEqC Input

Select **DiSEqC Input** and press the ◀▶ button to select an option.

**USALS** Motor Antenna using USALS

**DiSEqC1.2** General motor antenna using DiSEqC 1.2.

The options you can select from are different depending on the type of **DiSEqC Input** you choose.

When **DiSEqC Input** is set as **USALS**, press the **GREEN** button to set the position.

Select **My Longitude/My Latitude** and set the value using the **NUMERIC(0-9)** buttons or ◀▶ button.

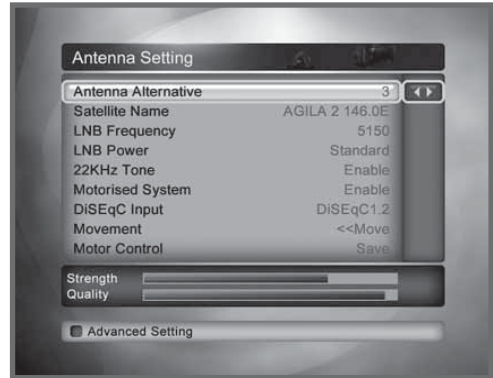
And select **OK** and press the **OK** button.

#### 4. Movement

When **DiSEqC Input** is set as **DiSEqC1.2**, select **Movement** and set the value using the **OK** or ◀▶ button.

#### 5. Motor Control

Select **Motor Control** and set the value using the **OK** or ◀▶ button.



## 6. Advanced Setting

Press the **RED** button.

Select **Antenna Alternative** and press the ◀/▶ button to select the satellite the antenna is pointing to from the options.

Select **Moving Mode** using the ◀/▶ button to select an option.

- Continuous** Motor moves continuously.
- Step** Motor moves by specified unit.
- Time** Motor moves during specified time.

Select **Moving Size** using the **NUMERIC(0-9)** buttons or ◀/▶ button.

Select **Movement** and set the value using the **OK** or ◀/▶ button.

Select **Motor Control** and set the value using the **OK** or ◀/▶ button.

Select **Recalculation** and press the **OK** button to recalculate all positions of other satellites.



## 7. Limit Setting

Press the **GREEN** button in **Advanced Setting**.

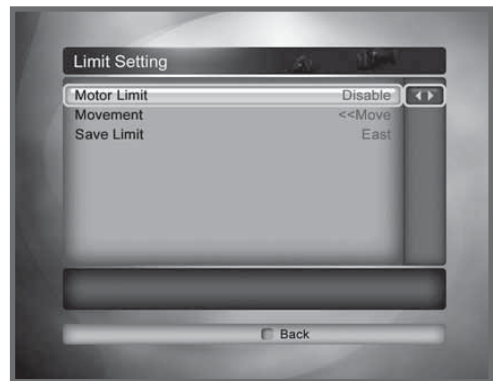
Select **Motor Limit** and press the ◀/▶ button to select an option.

- Enable** Motor limit is set. Motor does not exceed the limit.
- Disable** Setting is released.

**Note:** When setting new motor limit, set to **Disable**.

Select **Movement** and set the value using the **OK** or ◀/▶ button.

Select **Save Limit** and press the **OK** or ◀/▶ button to select an option.





# Chapter 10. Installation

## 3. Automatic Search

MENU > Installation > Channel Search > Automatic Search

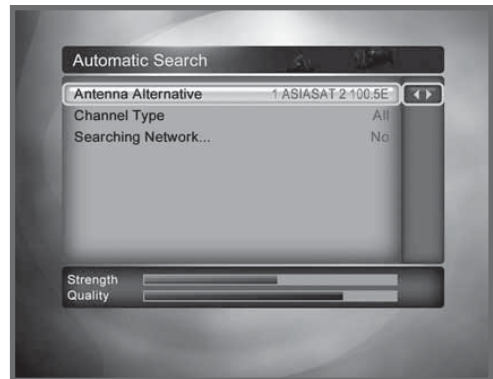
If you select the satellite to search channel according to the antenna setting, you can automatically search the satellite without entering any other information. And you cannot watch any programme without searching channel.

1. Select **Antenna Alternative** and press the ◀/▶ button to select one of satellites.
2. Select **Channel Type** and press the ◀/▶ button to select an option.

- All** Searches all channels.
- Free** Searches only free channels.
- CAS** Searches channels for selected CAS.

**Note:** The CAS type is Viaccess, Nagravision, Cryptoworks, and so on.

3. Select **Searching Network** and press the ◀/▶ button to select an option.



## 4. Manual Search

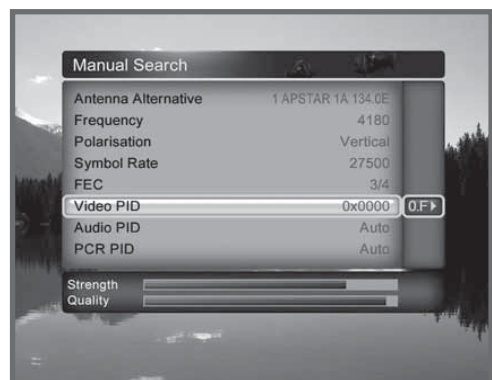
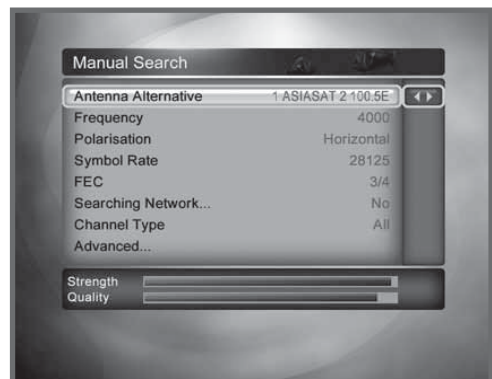
### MENU > Installation > Channel Search > Manual Search

1. Select **Antenna Alternative** and press the **◀/▶** button to select the antenna.
2. Select **Frequency** and enter the frequency using the **NUMERIC(0-9)** buttons.
3. Select **Polarization** and press the **◀/▶** button to select an option.
4. Select **Symbol Rate** and press the **◀/▶** buttons to select an option.  
If the required value does not exist, enter the symbol rate directly using the **NUMERIC(0-9)** buttons.
5. Select **FEC** and press the **◀/▶** button to select an option.
6. Select **Searching Network** and press the **◀/▶** button to select an option.
7. Select **Channel Type** and press the **◀/▶** button to select an option.
8. Select **Advanced** and press the **OK** button to start advanced search.

You can enter the PID value for specific channel. Select **Video/Audio/PCR PID** and press the **NUMERIC(0-9)** buttons or **◀/▶** button to set the value.

When you have select **0x0000**, enter PID value directly using the keyboard.

When completing entering PID value, select **OK**, and press the **OK** button.



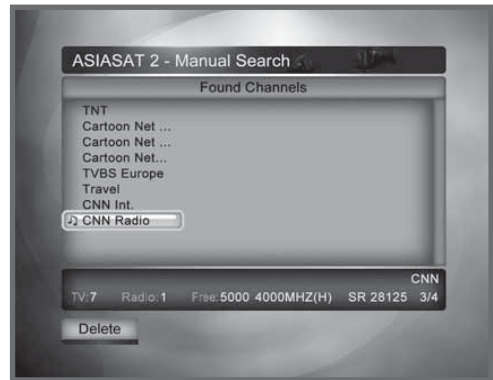
## Chapter 10. Installation

### 5. Search Result

1. Channel search will activate.
2. To delete search results, select the channel you wish to delete and press the **RED** button.
3. To save search results, press the **OK** button.

#### Note:

- When you press the **EXIT** button during channel search, the search will be discontinued and the accumulated search results will show.
- If there are no channels available, a message indicating the result will pop up.



### 6. SMATV Automatic Search

#### MENU>Installation>Channel Search>SMATV Search (Auto)

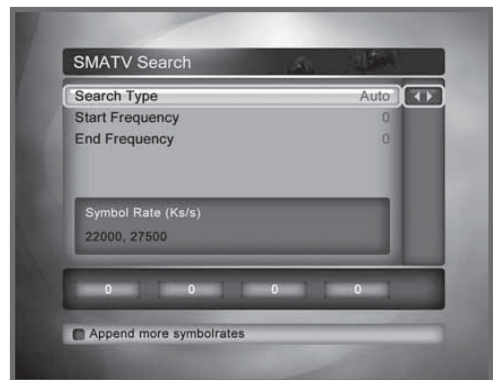
**Note:** If you use the SMATV antenna, you should connect to LNB IN 1.

1. Set **Search Type** to **Auto**.
2. Select **Start Frequency/End Frequency** and enter the frequency using the **NUMERIC(0-9)** buttons.

**Note:** Enter the frequency from 950 to 2150 MHz.

3. Press the **RED** button to append more symbol rates and enter symbol rates using the **NUMERIC(0-9)** buttons.

**Note:** You can enter up to four symbol rates.



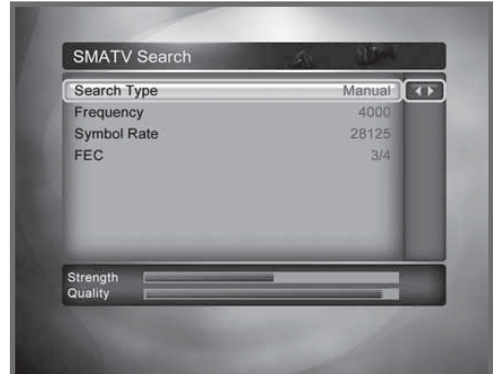
## 7. SMATV Manual Search

MENU>Installation>Channel Search>SMATV Search (Manual)

1. Set **Search Type** to **Manual**.
2. Select **Frequency** and enter the frequency using the **NUMERIC(0-9)** buttons.

**Note:** Enter the frequency from 950 to 2150 MHz.

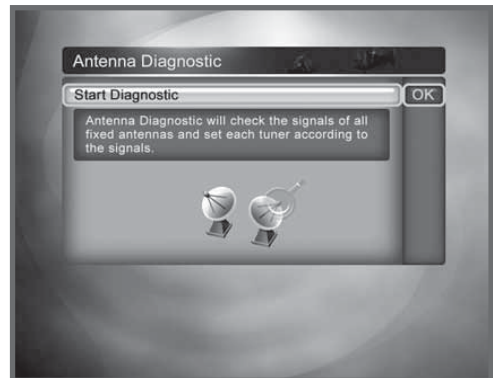
3. Select **Symbol Rate** and press the ◀/▶ buttons to select an option.  
If the required value does not exist, enter the symbol rate directly using the **NUMERIC(0-9)** buttons.
4. Select **FEC** and press the ◀/▶ button to select an option.



## 8. Antenna Diagnostic

MENU>Installation>Channel Search>Antenna Diagnostic

Press the **OK** button to check the signals of all fixed antenna and adapt each tuner to signals.



# Chapter 10. Installation

## 10.5 Status

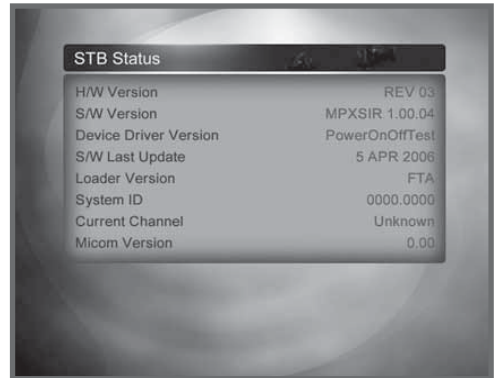
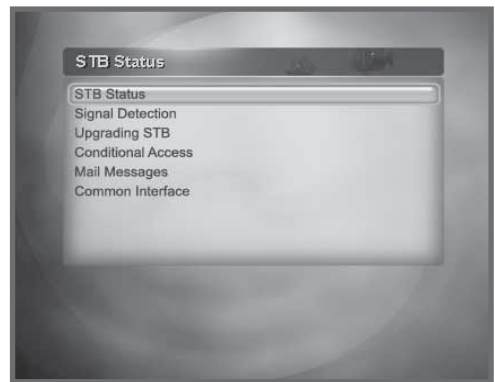
MENU > Installation > Status

**Note:** Press the **OK** button to save the changes and return to the previous menu.

### 1. STB Status

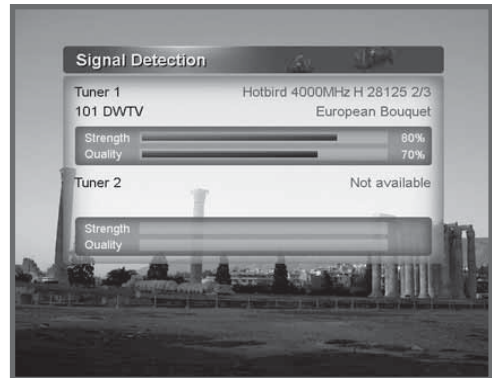
You can view the system information

1. Select **STB Status** and press the **OK** button.
2. Confirm the information of the STB.



## 2. Signal Detection

1. Select **Signal Detection** and press the **OK** button.
2. Displays percentage of signal strength and quality.



## 3. Upgrading STB

1. Select **Upgrading STB** and press the **OK** button.
2. You will be prompted to enter a PIN-Code.  
Enter the PIN-Code using the **NUMERIC(0-9)** buttons.  
The default PIN-Code is **0000**.

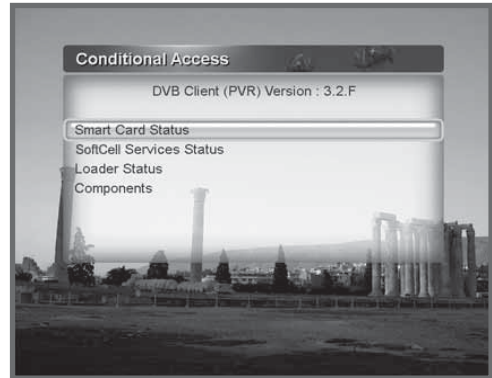
**Note:** When OTA is available, **Upgrading STB** is activated.



# Chapter 10. Installation

## 4. Conditional Access

1. Select **Conditional Access** and press the **OK** button.
2. Check the information of the Conditional Access components.



## 5. Mail Message

You can receive mail sent by the broadcasting company.

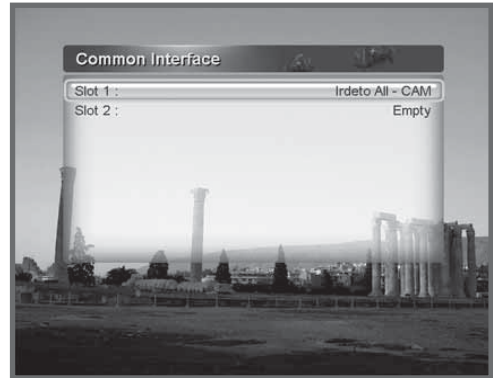
1. Select **Mail Message** and press the **OK** button.
2. Select a mail and press the **OK** button to read the mail.



## 6. Common Interface

1. Select **Common Interface** and press the **OK** button.
2. Select each slot and press the **OK** button. If Common Interface is available, you can view slot information.

**Note:** The displayed information about a Common Interface may differ depending on Common Interface type.





## Chapter 10. Installation

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### 10.6 Default Setting

You can restore the product to the factory default.

**Warning:** Please note that once you perform **Default Setting**, all data such as the antenna setting information, channel list, and all user configured data will be deleted.

#### MENU > Installation > Default Setting

1. You will be prompted to enter a PIN-Code. Enter the PIN-Code using the **NUMERIC(0-9)** buttons. The default PIN-Code is **0000**.
2. Select **OK** and press the **OK** button to restore all setting to the factory default. To return to the previous menu, select **No** and press the **OK** or **EXIT** button.
3. When default setting is completed, the installation wizard pops up automatically and assists channel search.

**Note:** For detailed information about the installation wizard, refer to **Chapter 3. Installation Wizard**.



# Chapter 11. Utility

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## 11.1 Calendar

**MENU > Utility > Calendar**

You can see the calendar specified year or month.

1. Press the ◀▶ button to change month.  
Press the ▲▼ button to change year.
2. Press the **OK** or **EXIT** button to return to the previous menu.



## Chapter 12. Software Update

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In order to maintain proper performance of the product, it is essential to have the most up-to-date software. Visit the Humax website to check the latest news and newly released software versions.

<http://www.humaxdigital.com>.

It is recommended that you periodically check for the availability of software update.

### 12.1 OTA (Over the Air)

OTA, an abbreviation of Over-the-Air, is a standard for the transmission of software through a broadcast system. OTA is simply an alternative method for downloading software versions. However, the manufacturers reserve the right for deciding the release of the software for their products by beaming the latest software versions over the air via satellite. Note that OTA is only limited to certain geographical regions mainly due to different antennas having different footprints (area where the signal can be received). The software update via satellite will only occur under the following circumstances.

1. The equipment should have appropriate loader software.

#### Caution

- Please note that if normal loader software is not equipped, the product may not be updated or operate properly after software update.
2. The manufacturer decides to release the software via a designated satellite.
  3. The equipment must be tuned properly to the same antenna equivalent to that of the manufacturer.
  4. Update software when the signal strength and quality is high. If the weather is not favorable, and the signal strength and quality are not recommendable, perform the software update later.

#### Caution

- Please be careful to keep the power on and the power cord plugged in during software update. If the power is off during software update, fatal damage may be caused to the product.
- Please be careful not to pull out the signal line (LNB cable) during software update. Update may be interrupted and the product may not operate.

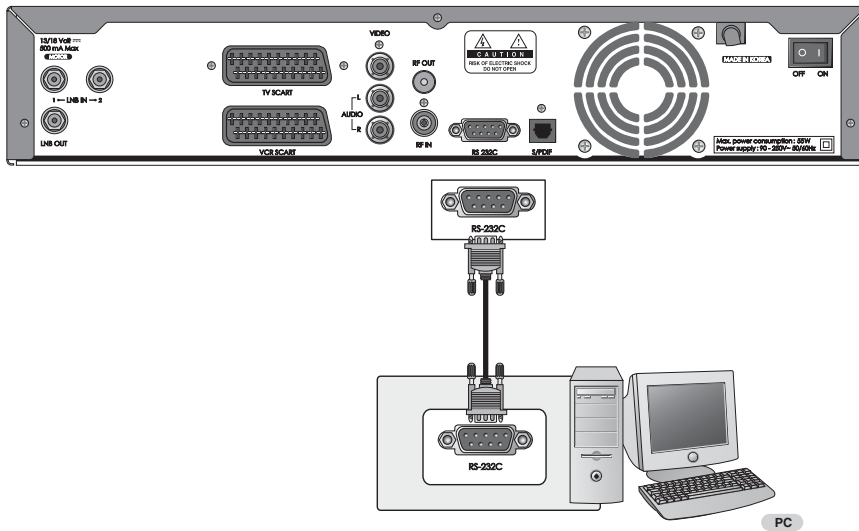
#### Note:

- Other functions will not activate while software update takes place.
- It may take 5 ~10 minutes to update software.
- Scheduling operation cannot work during software update.

## 12.2 Software Update from PC

You can connect the product to the PC directly and upgrade your software by transferring the new software from the PC. Follow these steps to download new software from PC.

1. Download new software file equivalent for this product into your computer (<http://www.humaxdigital.com>).
2. Download and install the download tool from our website into your computer.
3. Connect your PC to this product with **RS-232C** serial cable.
4. Execute the installed download tool and then follow the instructions of the download tool.
5. Power On/Off to start operating.



# Chapter 13. Menu Map

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**Channel List**

- 1. Simple
- 2. Advanced



**Media List**

- 1. Video
- 2. Recording
- 3. MP3
- 4. Image



**TV Guide**

- 1. Style
- 2. Find
- 3. Schedule
- 4. Group
- 5. Humax EPG



**Parental Control**

- 1. Censorship Classification
- 2. Change PIN-Code



**Installation**

- 1. Media Setting
- 2. System Setting
- 3. Organising Channels
- 4. Channel Search
- 5. Status
- 6. Default Setting



**Utility**

- 1. Calendar

# Chapter 14. Trouble Shooting

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## 14.1. Trouble Shooting

Before contacting your local service centre, please read the tips below carefully. If the problem persists after completing the following procedure, please contact your local product distributor or service centre for further instructions.

### 1. No message displayed on the front panel. (The product will not switch on.)

- Check the main power cable and make sure it is plugged into a suitable power outlet.
- Check that the mains supply is switched on.
- Check that the power switch is on at the rear of the product. (where applicable)
- Connect the power cable to a different power outlet.

### 2. No picture on TV set

- Make sure that the product is powered on and in operation mode. (Press the STANDBY button)
- Make sure that the AV cable is firmly connected to the TV.
- Make sure that the antenna cable is properly connected to the product.
- Make sure that the antenna setting in the menu is correct.
- Check the brightness level of the TV.
- Check if the channel is currently on air. Contact the broadcaster to ensure that the channel is running.
- Press the SOURCE button if the product is in external input mode.

### 3. Poor picture/sound quality

- Install the antenna in an obstacle-free place.
- Make sure there is no mobile phone or microwave oven near the product.
- Keep the power and the antenna cable for the satellite apart from each other.
- Check the signal levels and adjust your antenna if the level is too low. The signal level may be effected by weather conditions.

**Note:** If the antenna is covered with snow or the RF is weakened by heavy rain, the condition of the sound and picture may temporarily be poor. However, the poor sound and picture quality due to weather conditions cannot be accepted as a malfunction of product.

- Check that your dish alignment is correct.
- Change the satellite dish for a larger one as this will increase the signal levels received.
- Replace the LNB with a lower noise factor in cases where the noise factor is too high.
- Replace the LNB with a new one in case it is damaged or out of order.

## Chapter 14. Trouble Shooting

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### 4. No or poor sound

- Check that your AV cable is connected correctly.
- Check the volume levels of your TV set and the product.
- Check if the product or TV is on mute.
- Check audio type or soundtrack option in the AV menu.

### 5. Remote control does not operate.

- To control the product, the top end of the remote control should point directly towards the receiving part of the product.
- Remove and reinsert the batteries in the remote control.
- Replace the batteries in the remote control for a new set.

### 6. Cannot make reservations.

- Check that no previous reservations are conflicting with the new reservation.
- Check that the product is switched on at the time of the reservation.

### 7. No PIN-Code information is given.

- The default PIN-Code is always 0000.

### 8. Channel search does not work.

- Make sure that the antenna setting in the menu is correct.

### 9. Cannot update new software.

- You can get an update. If the product does not show a message requesting update, that means no software is available.

### 10. Cannot watch scrambled channels.

- Check that you have the appropriate Smartcard or CI-Module. Reinsert the Smartcard or CI-Module and make sure it initializes correctly.
- Check in the menu that the product is detecting the Smartcard or CI-Module.
- Check in the menu that you have a valid and working subscription to the channels you wish to view.
- Ensure that the Smartcard or CI-Module is not damaged.

### 11. Cannot watch pay channels.

- Check in the menu that you have a valid and working subscription to the channels you wish to view.
- Contact your network operator for more information.

### 12. Cannot record programmes.

- The hard disk is full. Delete unnecessary programmes and make space for new recording.
- Check if recording is overlapped with another channel. Stop the current recording or wait until the recording is finished.

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**13. Cannot operate the TSR.**

- The TSR may not be available during the recording. Wait until the recording is finished.
- Delete unnecessary programmes and make space for new recording.

**14. The product makes a humming noise.**

- The noise is from the fan; the hard disk is operating normally. This kind of noise is inevitable but seldomly noticeable.

**15. Cannot playback.**

- To play back the recorded file of a scrambled channel, use the Smartcard. In case it has been a long time since you last recorded, this may not work. Contact the product distributor.
- The signal during the recording may be weak or the hard disk too full.

**16. Cannot change channel while recording.**

- Certain channels may not be changed due to restriction of the tuner or connection type.



## Chapter 14. Trouble Shooting

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### 14.2 Error Message

Error message	Possible causes	What to do
<b>No or bad signal</b>	<ul style="list-style-type: none"><li>• The satellite dish is not pointing at the satellite.</li><li>• Signal is too weak.</li><li>• Satellite dish is too small.</li><li>• Problem with LNB.</li><li>• Wrong antenna setting.</li></ul>	<ul style="list-style-type: none"><li>• Adjust dish alignment.</li><li>• Increase the LNB voltage or connect a signal amplifier.</li><li>• Change to a larger dish.</li><li>• Change the LNB.</li><li>• Set the antenna correctly.</li></ul>
<b>The channel is scrambled or not available.</b>	<ul style="list-style-type: none"><li>• The channel has a signal, but no audio or video is provided.</li><li>• The channel has not been deleted by broadcasting company.</li><li>• The channel is for data broadcasting.</li><li>• Smartcard is not plugged in.</li><li>• Wrong Smartcard is in use.</li><li>• Smartcard is not plugged in correctly.</li><li>• Smartcard is damaged.</li></ul>	<ul style="list-style-type: none"><li>• Confirm if the channel is currently on air.</li><li>• Remove the channel from the channel list and check for new transponder details.</li><li>• The channel cannot be viewed with the appropriate model that supports data channels.</li><li>• Insert Smartcard.</li><li>• Insert the appropriate Smartcard for the channel(s) you wish to view.</li><li>• Reinsert Smartcard; ensure that it is inserted correctly.</li><li>• Contact your Smartcard retailer or channel broadcaster for a Smartcard replacement.</li></ul>
<b>Audio not available.</b>	<ul style="list-style-type: none"><li>• The channel has a video signal, but no audio is provided.</li></ul>	<ul style="list-style-type: none"><li>• Press the audio button on your remote control to confirm that the channel has audio options.</li></ul>
<b>CI module not installed.</b>	<ul style="list-style-type: none"><li>• CI module is not installed.</li><li>• CI module is not inserted correctly.</li><li>• CI module is not recognized.</li></ul>	<ul style="list-style-type: none"><li>• Insert CI module.</li><li>• Reinsert CI module.</li><li>• Insert a different CI module to check if your existing module is working.</li></ul>

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<b>Invalid CI module</b>	<ul style="list-style-type: none"> <li>• Wrong CI module.</li> <li>• CI module is not inserted correctly.</li> <li>• CI module is damaged.</li> </ul>	<ul style="list-style-type: none"> <li>• Insert the correct CI module.</li> <li>• Remove and reinsert the CI module.</li> <li>• Replace CI module.</li> </ul>
<b>Short LNB</b>	<ul style="list-style-type: none"> <li>• LNB cable is short.</li> <li>• LNB is internally short.</li> <li>• LNB In port is inserted by alien substance or damaged.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace LNB Cable.</li> <li>• Replace LNB.</li> <li>• Remove the alien substance and contact local service center in case damaged has occurred.</li> </ul>

## Chapter 15. Specification

<b>Tuner / Channel</b>	
Input Connector	IEC 169-24 female (F-Type)
Frequency Range	950MHz to 2150MHz
Signal Level	-25 to -75dBmV
LNB Power & Polarization	Vertical: 13V/14V (high), Horizontal: 18V/19V (high) Current : Max. 500 & 250mA, Overload/Short Protection
22kHz Tone	Frequency: 22±4kHz Amplitude: 0.7±0.2V
DiSEqC Control	Version 1.0/1.2/2.0 Compatible, USALS
Demodulation	QPSK
Input Symbol Rate	2~45 Ms/s
FEC Mode	Convolutional Code Rate 1/2, 2/3, 3/4, 5/6 and 7/8 with Constraint Length K=7
<b>MPEG Transport Stream A/V Decoding</b>	
Transport Stream	MPEG-2 ISO/IEC 13818
Profile Level	MPEG2 MP@ML
Video Input Rate	15 Mbit/s Max
Aspect Ratio	4:3, 16:9. Letter box
Video Resolution	720 x 576, 720 x 480
Audio Decoding	MPEG-2 Audio/MusiCam Layer I & II
Audio Mode	Single channel/Dual channel/Joint stereo/Stereo
<b>Memory</b>	
Flash Memory	4M byte
Graphic (MPEG) & System DRAM	64M byte
<b>RF Modulator</b>	
RF Input/Loophrough output	IEC 169-2 female/male
Frequency	474 ~ 862 MHz
Output Channel	CH 21~69
TV Standard	PAL B/G/I/D/K

<b>A/V &amp; Data In/Out</b>	
Video	RCA/SCART Video Output (CVBS, RGB, S-video)
Audio R/L	RCA/SCART Volume and Mute Control (Resolution: 20 bits DAC, MAX. 2Vrms)
S/PDIF	Digital Audio Output, Fiber-Optic (Resolution: 20 bits)
RS-232C	9 pin Socket type
USB	USB2.0 Device (Connectable to the USB of PC)
<b>Power Supply</b>	
Input Voltage	90~250V AC, 50/60Hz
Type	SMPS
Power Consumption	Operation - Max. 50W
Protection	Separate internal fuse & Lightning protection
<b>Physical Specifications</b>	
Size	380 x 78 x 281 mm
Weight (Net)	Around 3.7Kg
Operating Temp	0 °C to +45 °C
Storage Humidity	5%~95% RH (Non-condensing)

## Chapter 16. Glossary

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➤ **DiSEqC (Digital Satellite Equipment Control)**

A DiSEqC compatible product relies on a switching box which detects the 22kHz tone pulsing rapidly on and off. In this way, a specially designed product can control numerous LNBs through a DiSEqC switching box.

➤ **EPG(Electronic Programme Guide)**

An electronic equivalent to a printed television listings magazine; it is an application used with digital receivers and digital television sets to list current and scheduled programmes that are or will be available on each channel, including a short summary or commentary for each programme. The information supplied in the EPG is sent and updated by the channel broadcaster.

➤ **Frequency**

The property of a signal measured in cycles per second (=Hz).

➤ **FTA (Free- To-Air)**

An unscrambled broadcaster allowing customers to view channels or services without paying any subscription.

➤ **LNB (Low Noise Block)**

A device that is mounted on an arm facing your satellite dish, focusing on satellite signals. A LNB converts signals received from satellite to a lower frequency and sends them to a satellite product via coaxial cable.

➤ **OSD (On Screen Display)**

OSD displays the basic information necessary for the users to configure monitor or TV settings. OSD information may include brightness, contrast, tuning, RGB adjustment, and screen size and position.

➤ **OTA (Over The Air)**

A standard for the transmission of software for equipment, through a broadcast system. Manufacturers reserve the right for deciding the release of the software for their products.

➤ **SCART**

A 21-pin connector standard to connect two pieces of Audio-Visual equipment such as a TV and a VCR. Each device will have a 21-pin female connection; a cable with male connection at both ends is used for connecting the devices.

➤ **CI Module (Common Interface Module)**

An electronic device, incorporating a slot for a Smartcard. A CI module gives a digital television or set-top box with the appropriate hardware (CI module Slot) the facility to decrypt scrambled (Pay TV) channels.

➤ **Smartcard**

A credit card sized card that contains updateable chip memory. It is used for accessing Pay TV (encrypted) channel or services when inserted into an appropriate product.

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➤ **S/PDIF (Sony/Philips Digital Interface format)**

A standard format for the transfer of digital audio signals. It allows the transfer of digital audio between two devices without any conversion to and from analogue, which could degrade the signal quality.

➤ **Transponder**

A satellite is divided up in parts called transponders. A transponder is one distribution section of the satellite. Each transponder can be used for distribution of several channels or services.

➤ **USALS (Universal Satellite Automatic Location System)**

## Chapter 17. Service and Support

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Information concerning troubleshooting, software upgrade and product support is provided in the following websites and call centers.

Should your product require warranty service, please contact HUMAX to obtain the appropriate authorization.

### HUMAX Call Center

#### Germany

Tel:	01805-778870 (€ 0,12/min)
Opening Hours:	Mon-Sat 8:00-20:00
E-mail:	techinfo@humax-digital.de
Website:	www.humax-digital.de
Language:	Deutsch/English/Turkish

#### UK

Tel:	01805-778870 (€ 0,12/min)
Opening Hours:	Mon-Fri 8:30-18:00
E-mail:	uksupport@humax-digital.co.uk
Website:	www.humax-digital.co.uk
Language:	English

#### Middle East (Dubai, UAE)

Tel:	+971 (0)4 359 2323
Opening Hours:	Sat-Thurs 9:00-20:00(Closed on Fri)
E-mail:	callcenterME@humaxdigital.com
Website:	www.humaxarabia.com
Language:	Arabic/English

#### Australia

Tel:	1800 613 011
Opening Hours:	Mon- Fri 9:00-17:30
E-mail:	techinfoau@humaxdigital.com
Website:	www.humaxdigital.com/australia
Language:	English

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## Italy

Tel: 899 100 080 (€ 1+ VAT/min)  
Opening Hours: Local time in Italy (GMT+1)  
Mon- Fri 8:00 – 18:00  
Language: Italian

## Sweden

Tel: +46 (0)550 85527  
Opening Hours: Mon-Fri 8:00-16:30  
Language: Swedish/English

## Finland

Tel: 09 56186366  
Opening Hours: Mon-Fri 8:00-16:00  
Language: Finnish/English

## Austria

Tel: 0820 400675 (€ 0,12/min)  
Opening Hours: Mon-Sun 8:00-23:00  
E-mail: [support@humax-digital.de](mailto:support@humax-digital.de)  
Website: [www.humax-digital.de](http://www.humax-digital.de)  
Language: Deutsch/English/Turkish

**Note:** For hardware repair, please visit our website.